MISSION STATEMENT

Valparaiso University, a private institution of higher learning distinguished by its Lutheran heritage of scholarship, freedom, and faith, provides strong programs of liberal and professional studies well grounded in the arts and sciences by a faculty dedicated to challenging teaching and care for the individual in a residential setting where its students can develop as whole persons, prepared to lead in their professions and to serve both church and society.

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ANNOUNCEMENTS FOR 2003-2004 SESSIONS

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Published four times yearly (July, August, September, and November) by The Lutheran University Association, Inc., Valparaiso, IN 46383-6493. Second-class postage paid at Valparaiso, Indiana.
The General Catalog of Valparaiso University is designed to describe the programs of the University and to give that information needed to guide students in the successful achievement of their academic goals. Nevertheless, the material is for information only and does not make a contract between the student and the University. Students themselves are ultimately responsible for completion of the requirements for their degrees as well as for the value they receive from University programs.

The relationship between the University and its students is not custodial in nature. There is no special relationship with the University created by a student's enrollment. The University does not assume any duty toward any student that is not otherwise required by operation of law or by the terms of this catalog.

In years when the General Catalog is not published an Announcement Bulletin gives information on important changes in courses, calendar, staff, program and policies. The University reserves the right to discontinue an academic program if it is deemed no longer central to the University's mission.

Separate catalogs are issued for the School of Law, the Graduate Division and the Summer Session, which should be consulted for details about the related programs.

Statement on Equality of Opportunity. Valparaiso University provides equality of opportunity to its applicants for admission, enrolled students, graduates, and employees. The University does not discriminate with respect to hiring, continuation of employment, promotion, and tenure, other employment practices, applications for admission, or career services and placement on the basis of race, color, gender, age, disability, national origin or ancestry, sexual orientation, or (as qualified herein) religion. An institution committed to its Lutheran tradition, the University reserves its right to promote the teaching of the church and to exercise preferences in admissions and employment-related practices in favor of Lutherans.

Graduation Rate of Entering Freshmen. The graduation rate for all students entering Valparaiso University as first-time freshmen during the 1996-97 academic year was 73 percent. This graduation rate represents the percentage of students entering Valparaiso University as first-time (i.e., new) full-time degree-seeking freshmen during the 1996 Summer and Fall semesters who subsequently were awarded baccalaureate degrees by Valparaiso University within six calendar years (i.e., through August 2002).
December 12, Friday, 5:00 p.m. Deadline to officially withdraw from the University for Fall Semester. Last day to file petitions to change registration. December 12, Friday, 10:00 p.m. Instruction ends. December 13, Saturday, Reading day. December 14, Sunday, December Commencement Ceremony. December 15, Monday, 8:00 a.m. Final examinations begin. December 19, Friday, 5:30 p.m. Final examinations end. Semester ends. December 22, Monday, Noon. Deadline for reporting all grades.

**SPRING SEMESTER 2004**

January 5, Monday. Orientation for new students; registration confirmation. January 6, Tuesday, 8:00 a.m. Registration confirmation; registration for all new students, former students and students who did not participate in advance registration. January 7, Wednesday, 8:00 a.m. Instruction begins. January 7-March 15. Dates for first half short courses. January 14, Wednesday, 5:00 p.m. Deadline for adding first half short courses. January 14, Wednesday, 5:00 p.m. Deadline for late registration for spring semester. January 14, Wednesday, 5:00 p.m. Deadline to add or drop without a grade of W a regular course. All requests for adding a course during the official drop-add period (first six class days) shall remain at the discretion of the appropriate academic dean or department chair. January 19, Monday. Observation of Martin Luther King’s Birthday. January 23, Friday, 5:00 p.m. Deadline to file for S/U grade for first half short courses. February 6, Friday, 5:00 p.m. Deadline for withdrawing from first half short courses with grade of W. February 6, Friday, 5:00 p.m. Deadline to file for S/U grade for regular courses. February 27, Friday, 5:00 p.m. Deadline for arranging course intensification. February 27, Friday, 6:30 p.m. Spring recess begins. March 15, Monday, 8:00 a.m. Spring recess ends. March 16-May 4. Dates for second half short courses. March 23, Friday, 5:00 p.m. Deadline for adding second half short courses. March 30, Tuesday, 5:00 p.m. Deadline for withdrawing from regular courses with grade of W. March 30, Tuesday, 5:00 p.m. Deadline to file for S/U grade for second half short courses. April 1, Thursday. Last day to file application of candidacy for the associate’s and bachelor’s degrees to be conferred in December, 2004. April 9, Good Friday. No classes. April 14, Wednesday, 5:00 p.m. Deadline for withdrawing from second half short courses with grade of W. April 19-30. Advance registration for Fall Semester, 2004. April 27, Tuesday. Last day for tests in courses of 3 credits or more. Last day to petition for change in date of final examinations. May 4, Tuesday, 5:00 p.m. Deadline to officially withdraw from the University for Spring Semester. Last day to file petitions to change registration. May 4, Tuesday, 10:00 p.m. Instruction ends. May 5, Wednesday. Reading day. May 6, Thursday, 8:00 a.m. Final examinations begin. May 11, Tuesday, 5:30 p.m. Final examinations end. Semester ends. May 12, Wednesday, noon. Deadline for grades for all candidates for all degrees. May 14, Friday, 5:00 p.m. Deadline for reporting all other grades. May 16, Sunday, 130th Annual Commencement

Certain other dates are observed annually by the University: Reformation Day, Ash Wednesday, and Ascension Day.

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**VALPARAISO IN BRIEF**

The Aims of the University

Valparaiso University is dedicated to superior teaching based on excellent scholarship. As a scholarly community it actively engages in the exploration, transmission and enlargement not only of knowledge but also of the cultural and religious heritage of mankind, and it is proud to prepare men and women for professional service. This community values respect for learning and truth, for human dignity, for freedom from ignorance and prejudice, and for a critically inquiring spirit. The University aims to develop in its members these values, together with a sense of vocation and social responsibility. It holds that these values receive their deepest meaning and strength within the context of the Christian faith.

As a church-related university concerned for the needs of its students in all aspects of their development as well as for the problems which face society, it aims to graduate informed and sensitive men and women who will not only leave their marks on society but find lives of personal fulfillment as well. Proud of all its alumni who have carried its values into leadership roles in their communities, the church, social institutions, the nation and the world, it aims to continue graduating such potential leaders.

Under neither the control nor the authority of any church body, the University is an independent institution owned and operated by The Lutheran University Association. For seventy-five years the University has been affiliated with congregations and members of The Lutheran Church–Missouri Synod. It enjoys, too, a partner relationship with members of all Lutheran churches, with all its constituents who share its aims and voluntarily support it, and with the communities of Northwest Indiana.
A Distinctive Institution

All American colleges and universities bear a family resemblance to one another as they come from a common set of ancestors in Europe and colonial America. Within that larger family, Valparaiso University belongs to a small and distinctive group. It is neither a large research university nor a small liberal arts college. At the same time that it promotes a basic liberal arts curriculum, it features strong undergraduate colleges of Engineering, Nursing and Business Administration, a professional direction lacking in the conventional liberal arts college. Conversely, the University is not a cluster of professional colleges which merely pays lip service to the liberal arts. Education in the liberal arts is the foundation of every academic program, and the College of Arts and Sciences, the largest unit in the University, carries on many vital programs of its own.

This combination of liberal and professional studies of such variety within an institution of modest size is rare in American higher education. Broad enough in curriculum and in variety of programs to be a university, still Valparaiso University emphasizes undergraduate teaching in the manner of the traditional small college, with many small classes and strong individual guidance. While the University focuses on undergraduate education, it maintains a modest graduate program for part-time students as well as a fine law school of 500 students. The full-time student population is around 3600, with over 4000 served annually.

Faith and Learning

The University’s concern for the personal and intellectual development of each student is rooted in its Lutheran heritage. This Christian philosophy of education guides both the design of its curriculum and the approach to learning that it fosters. Beyond the courses in theology which the curriculum provides, the University emphasizes a Christian freedom which liberates the scholar to explore any idea and theory, a vocation freely uniting faith and intellectual honesty. In its residential life the University leads students to accept personal responsibility for their development and encourages a sense of caring for one another. Standing together at the center of the campus, the Chapel of the Resurrection and Moellering Memorial Library express the University’s belief in the creative relationship between faith and learning. The University’s motto, too, points up this relationship: In luce tua videmus lucem, “In Thy light we see light.”

The Chapel is the focal point for worship, the proclamation of the Gospel and many cultural events. Both Sunday and daily services bring together members of the University community who choose to worship together. Students and professional Chapel staff offer a broad and creative ministry to the whole community. As the University welcomes students of varied denominations and religious traditions, so it welcomes the involvement of community churches in those students’ lives. A Roman Catholic student center, for example, is located next to the campus, and some churches of other denominations offer transportation to their services in the town.

The Setting of the University

The spacious campus of 310 acres contains more than seventy academic and residential buildings, many of them built within the past two decades. The campus is located in the small city of Valparaiso, attractively situated in a rural setting at the edge of the busy industrial district of Northwest Indiana. Fifteen miles to the north, on the shore of Lake Michigan, are the Indiana Dunes. The city of Chicago with its vast cultural resources, an hour’s drive from the campus, can be reached easily by train and bus. The University often charters buses so that students and faculty can take advantage of the theatres, museums and other educational benefits of this great city. Many programs of the University use the region—rich in natural, urban and industrial opportunities for field trips and investigative activities.

An Unusual History

In its 144 year history, the University has passed through three distinct phases. Begun by Methodists in 1859 as an institution pioneering in coeducation, the Valparaiso Male and Female College was forced by the reverses of the Civil War to close its doors in 1871. It was revived in 1873 by an enterprising educator, Henry Baker Brown, as the Northern Indiana Normal School. “Mr. Brown’s School,” a flourishing private, proprietary institution, was renamed Valparaiso College in 1900 and rechartered as Valparaiso University in 1907. During the next twenty years, it won national recognition as a low-cost, no-frills institution of higher learning which served thousands of students who might not otherwise have been able to afford a good education. Many alumni from this period achieved distinction in their fields as governors, legislators, scientists, business leaders and other professionals. However, after World War I the University went into decline and bankruptcy; then, in 1925, The Lutheran University Association purchased it, beginning the modern phase of the University’s history. The Association, an Indiana Corporation composed of men and women the majority of whom are affiliated with Lutheran congregations, is an independent organization actively promoting higher education in the Christian context.

Profile of Students and Faculty

The heart of an academic institution is its students and faculty. Valparaiso University’s student body is selected from a large number of applicants from all states in the nation and from many foreign countries. Unlike most American colleges, which draw the majority of their students from their immediate location, Valparaiso enrolls slightly under 40 per cent of its students from Indiana; another 40 per cent come from the other states surrounding the Great Lakes. Major contingents come, too, from both East and West coasts. National and diverse in its student body, the University is still a distinctively Midwestern institution which enjoys the friendliness and hard work characteristic of the region. More than 60 per cent of the students come from the upper fifth of their high school graduating classes. Over fifty National Merit Scholars are enrolled at the University in any given year, a figure which places Valparaiso University in the upper 4 per cent of the nation’s schools in such enrollment.
A rich diversity characterizes the University faculty (about 250 full-time and 100 part-time professors), but they share important skills and attitudes as well. Educated at leading research universities, they are competent in their fields. They care about students, an attitude made visible by the frequent individual consultations they invite. Above all, they enjoy teaching and believe that their work enriches not only their students’ but their own lives. At Valparaiso University there are no teaching assistants; senior faculty members and newcomers alike can be found teaching introductory and advanced courses. The University embodies in its faculty an ideal of the teacher-scholar, one who recognizes that teaching is based on continuing scholarship. Many members of the faculty have achieved significant reputations in their particular fields and are pursuing, with marked success, grants from government and private foundations to promote research and improve instruction. In addition to The Cresset, a periodical review of literature, the arts and public affairs, published by the University, faculty edit from the campus two other national learned journals.

University governance, too, reflects campus-wide involvement. Through the University Council, composed of faculty, students, administrators, and staff, students share in the development of University policy, including academic programs. Final responsibility for all academic programs, especially those which require certification, is vested in the faculty.

The modest size of the University, its organization into six small colleges, and especially the strong personal commitment of the faculty enhance its teaching effectiveness. In a school like this, with its concentrated residential focus and the immediate relationships it fosters between faculty and students, educational life is more vital and more intense than would be possible at massive institutions or at commuter colleges. Valparaiso University consciously fosters this tradition in the selection of both its students and its faculty and in the development of its educational programs.

The Goals of Education at Valparaiso

While appreciating the importance of preparing students for useful careers, Valparaiso University holds to the ideal that its students want an education which treats them first as human beings rather than simply as future wage earners. These students want to think clearly, to analyze facts and ideas, to draw sound conclusions from their reasoning and to express themselves clearly and creatively. They want to understand their cultural and religious heritage, developing a sensitivity to the culture and the viewpoints of others while at the same time finding for themselves firm values and standards by which to live and make judgments. They want to become humane and responsible citizens in an ever changing society and to participate effectively in their institutions and communities.

There is no simple formula for acquiring these abilities. Every degree program at Valparaiso aims to assist students to attain these goals by offering a course of studies in general education which provides students with a broad base of knowledge and abilities, as well as in a particular area which leads to the mastery of concepts and tools of a single field of study. Both components, general education and the major field of studies, develop abilities in the student which go far beyond mere career preparation and provide intellectual enrichment for a lifetime.

Degrees

UNDERGRADUATE DEGREES

Associate of Arts
Associate in Science
Bachelor of Arts
Bachelor of Music
Bachelor of Music Education
Bachelor of Science
Bachelor of Science in Education
Bachelor of Science in Mechanical Engineering
Bachelor of Science in Nursing
**Academic Programs**

**GRADUATE DEGREES**
- Master of Arts
- Master of Arts in Liberal Studies
- Master of Business Administration
- Master of Science
- Master of Science in Nursing
- Master of Science in Special Education
- Education Specialist

**AW DEGREES**
- Juris Doctor
- Master of Laws

**requirements and Flexibility**
Each degree entails a set of requirements which are specified at appropriate places in its bulletin. These requirements are designed to give structure to each student's education while affording the greatest possible freedom to design an individual academic program. Elsewhere in this bulletin are descriptions of a number of ways by which the University encourages further flexibility and individuality.

**An Overview of the General Education Requirements at Valparaiso**

These requirements vary somewhat in different degree programs, particularly in the professional colleges. These variations are described in the more detailed presentation of degree requirements elsewhere in this catalog.

1. **Freshman Studies**
   (taken during the freshman year)
   - The Human Experience, two semesters

2. **Academic Area Studies**
   - Theology, two courses (one in the junior or senior year)
   - Literature and Fine Arts, two courses
   - Philosophical and Historical Studies, one course
   - Studies in Social Analysis, two courses
   - Studies in the Natural and Behavioral Sciences/Mathematics, three courses
   - Global Cultures and Perspectives, one course
   - U.S. Cultural Diversity, one course
   - Foreign Languages, variable requirement
   - Physical Education, one credit hour

**Summary of the Academic Fields of Study at the University**

Most of the fields of study listed below are available as majors and minors or as interdisciplinary programs. A few are available only as minors. Some fields offer further specialized concentrations within the major itself. The index of this Bulletin indicates the location for further information regarding these programs.

**The College of Arts and Sciences:**
- American Indian Studies Minor
- American Studies
- Art
- Biology
- Broadcast Meteorology
- Chemistry
- Chinese and Japanese Studies
- Classics
- Communication
- Computer Science
- Criminology
- Economics
- Elementary Education (Early/Middle Childhood)
- English
- Environmental Science
- French
- Geography
- Geology
- German
- Hebrew Minor
- History
- International Economics and Cultural Affairs
- International Service
- Japanese Minor
- Mathematics
- Meteorology
- Middle School/Junior High School (Middle Level Education)
- Modern European Studies
- Music
- Music Education
- Music Enterprises
- Music-Theatre
- Philosophy
- Physical Education
- Physical Education: Athletic Training
- Physical Education: Sports Management
- Physical Education: Exercise Science

**Political Science**
- Pre-Seminary Studies
- Psychology
- Secondary Education (Adolescence/Young Adult)
- Social Work
- Sociology
- Spanish
- Theatre
- Theology
- Writing Minor
- Youth, Family, and Education Ministry

**Christ College:**
- Scholar and Associate Honors Program
- The Humanities

**The College of Business Administration:**
- Accounting (two degree options)
- Finance
- Information and Decision Sciences
- International Business Management
- Marketing
- Marketing Concentration
- International Business and Global Studies Minor

**The College of Engineering:**
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Mechanical Engineering

**Interdisciplinary Programs:**
- Applied Statistics Minor
- Bioethics Minor
- Business Administration Minor
- Environmental Studies Minor
- Film Studies Minor
- Gender Studies Minor
- Global Studies Minor
- Liberal Arts Business Minor
- Manufacturing Management Minor
- Political Communication Minor
- Urban Studies Minor

**The College of Nursing:**
- Nursing
- B.S.N. completion program for R.N. students
- Accelerated BSN degree option

Programs of the School of Law and the Graduate Division are described in separate catalogs.

**The Freshman Year**

Even though they may express clear-cut decisions, college freshmen are often uncertain about their long-range career goals. The University fosters this openness by encouraging them to discover new interests while cultivating their current ones. All students, with the help of their academic advisers, design a program that allows them first to explore various areas of interest and, in due time, to develop a plan of study focusing on a major area of interest.

**The Valpo Core Course.** The Valparaiso Core Course is a two-semester, ten credit course required of all first-year students not enrolled in the Christ College Freshman Program. The primary subject of this interdisciplinary course is the human experience as great thinkers, writers, and artists have represented it. The primary object of the course is to welcome and initiate new students into this university community and academic life generally, by putting them in dialogue with great teachers and great texts, and, of course, with each other, to explore together some of the most essential aspects of human existence, past, present, and future.

The course is interdisciplinary because knowledge is interdisciplinary, and in the global community we now live in the world depends increasingly on people able to make connections across disciplines, across cultures, across oceans, across town. To prepare our students to succeed in this world and live meaningful lives of leadership and service, we recognize the need to introduce them to cultures and traditions other than their own. The reading list is multicultural and international because the world is multicultural and international. At the same time, we recognize the need to help students discover where they come from and where they are, which for the majority means exploring the Judeo-Christian intellectual tradition of the West, which produced, among other great things, this University. Hence, at the core of this Core Course, in the best spirit of Lutheran higher education, is the desire to create dialogues of texts and traditions, and to help our students grow in their understanding of how the past speaks to the present, how the sacred informs the secular.

First-year students need special skills to enter fully into this dialogue and become...
successful students in the fullest sense. The \textit{L}almtmAnt Core is designed to help students develop those skills necessary for them to thrive in their studies, skills in close reading and critical thinking, in speaking, and especially in writing. Great opportunities also exist in the course for students to become more adept at retrieving, evaluating, and managing information, as they hook up to the academic experience distributed as 3 credits of theology. CORE credits of non-U.S. History and 2 credits of English composition and 2 credits of philosophy/theology. CORE 115 may be distributed as 3 credits of non-U.S. History and 2 credits of philosophy/theology.

Off-Campus Study Programs in the United States

Washington Semester Program. Through an agreement between Valparaiso University and the American University, Washington, DC, students from Valparaiso may spend one semester of their junior year (or some other semester by arrangement) at American University. The program is a set of courses designed to give the students an opportunity to see at first hand the broad range of the governmental and political activity in Washington through field visits, consultation with officials and evaluation sessions led by academic instructors. The program includes seminars on National Politics, Urban Politics, Science and Technology, International Development, Foreign Policy, Environmental Policy and Justice. The Valparaiso University course POLS 120 is a prerequisite to this program. This program is not open to students who have participated in the Semester on the United Nations Program.

Semester on the United Nations. Through an agreement between Valparaiso University and Drew University, Madison, NJ, students from Valparaiso may spend one semester of their junior year (or some other semester by special arrangement) at Drew University. The curriculum involves on-the-scene observations and analyses of the United Nations through direct contact with United Nations meetings and headquarters. For two days each week of the semester the student is in the proximity of the United Nations in New York under the supervision of a member of the Drew University faculty.

Valparaiso University course POLS 130 is a prerequisite to this program. This program is not open to students who have participated in the Washington Semester Program.

Students register at Valparaiso University for the Washington Semester and pay to Valparaiso University the normal general fee of this University and the tuition and fees of the American University. Expenses for travel, meals and lodging are paid directly by the students. The Washington Semester courses are accepted for full credit toward graduation from Valparaiso University.

The Lutheran College Washington Consortium. Valparaiso University is a member of the Lutheran College Washington Consortium, sponsored by a group of eleven Lutheran colleges and universities. The consortium offers a full semester of courses designed to introduce students to the range of governmental activities in Washington, with an emphasis on ethical dimensions of public service. The Core Course is thus entitled "Ethical Issues and Public Affairs." The director of the program also places students in internships ranging from congressional offices to various public and private agencies. The Valparaiso University course POLS 110 is a prerequisite to this program. This program is open to students who have participated in the Semester on the United Nations Program or the Washington Semester Program at American University.

Students register at Valparaiso University for the Washington Consortium Semester and pay to this University the tuition and general fee. Expenses for travel, meals and lodging are paid directly by the students. The Washington Consortium Semester courses are accepted for full credit toward graduation from Valparaiso University.

For information on the Washington Consortium Semester see the Dean of the College of Arts and Sciences.

Semester on the United Nations. Through an agreement between Valparaiso University and Drew University, Madison, NJ, students from Valparaiso may spend one semester of their junior year (or some other semester by special arrangement) at Drew University. The curriculum involves on-the-scene observations and analyses of the United Nations through direct contact with United Nations meetings and headquarters. For two days each week of the semester the student is in the proximity of the United Nations in New York under the supervision of a member of the Drew University faculty.

Valparaiso University course POLS 130 is a prerequisite to this program. This program is not open to students who have participated in the Washington Semester Program.

Students register at Valparaiso University for the Washington Semester and pay to Valparaiso University the normal general fee of this University and the tuition and fees of the American University. Expenses for travel, meals and lodging are paid directly by the students. The Washington Semester courses are accepted for full credit toward graduation from Valparaiso University.

Expenses for travel, meals and lodging are paid directly by the students. Semester on the United Nations courses are accepted for full credit toward graduation from Valparaiso University.

Chicago Arts Program. The Chicago Arts Program is a 15-week guide to the contemporary art world. In addition to attending a wide range of cultural events, students live in Chicago and meet and work with local artists and arts professionals on part-time internships and independent study projects, and in two courses, the Core course, Negotiating the Artworld, an elective special topics seminar or studio course. Possible internship placements include in an artist's studio; in a museum or gallery, with a theatrical or dance company; with an orchestra or presenting venue, with a magazine or newspaper and more. Not limited to arts majors, the program benefits all students who have strong interests in the arts.

Chicago Urban Semester. Through the College of Arts and Sciences and with the cooperation of the Associated Colleges of the Midwest, the University offers to all students a one semester program involving residence in Chicago. This program offers students 16 credit hours of instruction including closely supervised internships and independent study projects. Through the course work, students learn the magnitude and complexity of an urban environment by analyzing and experiencing the political, social, economic and cultural forces shaping a city. For descriptions of courses and grading policies refer to page 232.

Sophomores, juniors and seniors are eligible to participate. The program is offered both fall and spring semesters.

Valparaiso students register at Valparaiso University for the Chicago Urban Semester and pay to this University the tuition and general fee. There is an additional fee for this program which is determined annually by the Associated Colleges of the Midwest. Expenses for travel and meals are paid directly by the students. Chicago Urban Semester courses are accepted for full credit toward graduation from Valparaiso University.

Cooperative Education Program. Cooperative education is an academic program which combines professional work experience with academic coursework. Paid employment occurs in business, industry, government, or other professional settings. The Cooperative Education experience is available in the Colleges of Arts and Sciences (page 54), Business Administration (page 188), Engineering (page 203), and Nursing (page 222).

All students in good standing who meet the grade point minimum declared by the particular college may participate in the program. Students may enroll in full-time (called alternating) or part-time (called parallel) programs, except in the College of Engineering where only the alternating program is available. Academic credit for Cooperative Education is granted by the college or participating department in which the student is enrolled. The number of co-op credits counted toward a major or degree varies by college or department. Students should consult with faculty co-op coordinators to determine how co-op credits may apply to majors and/or degree requirements.

The Cooperative Education program enriches the total education of students by providing the opportunity to increase their sense of responsibility, judgment, and self-confidence through off-campus experiences that are closely integrated with their academic studies.

Students are considered to be continuing full-time students of the University while on co-op assignment.

Other Academic Opportunities

Internships. A number of internship opportunities have been established in several departments in the College of Arts and Sciences and in the College of Business Administration. Some of these are optional, others are required. These internships allow students to learn by direct experience under the supervision of a professional. Further information is given in departmental descriptions.

Service Learning. Service learning is a credit-bearing educational experience in which students participate in an organized service activity that meets identified community needs. Students reflect on the service activity in such a way as to gain further understanding of course content, a broader appreciation of the discipline, and an enhanced sense of civic responsibility.
Academic Programs

Service learning provides an additional means for reaching educational objectives, and academic credit is appropriate for service activities when learning objectives associated with the service are identified and evaluated.

Unlike extracurricular voluntary service, service learning is a course-based service experience that produces the best outcomes when meaningful service activities are related to course material through reflection in writing and small group discussions. Unlike practica and internships, the experiential activity in a service learning course is not necessarily skill-based within the context of professional education.

Guidelines for courses with a service learning component are as follows:

1. Courses should contain the equivalent of one to two hours per week of the service-learning component.
2. A reasonable variety of service agency placements should be provided for each course.
3. Any given course may contain a service-learning component; these courses will be identified such in the current course schedule.
4. Students may be required to use their personal vehicles for travel off-campus service sites. If off-campus work is required, students will sign a liability waiver.

Honors Work and Independent Study. The University encourages honors work and independent study. Each college has its own approach to this form of instruction. Information should be sought from deans or department chairs. Especially interesting is an opportunity for a group of students to develop a topic or area of studies to be approached as a group under the sponsorship of a faculty member. This independent group study program is administered through the Dean of the College of Arts and Sciences but is open to all students. More detailed information is given on pages 53-54.

Christ College. This College is itself one of the special educational opportunities available to all students of the University. It is an honors college which offers honors courses, special integrated courses and seminars which probe topics of interest not normally found in a single department. The College has a core community of students who follow a special course of studies in the area of general education but welcomes all students to inquire into its programs and to participate in it. Details are given on pages 181-185.

Summer Sessions. The Summer Session provides a variety of undergraduate and graduate students. Regularly enrolled Valparaiso University students use the Summer Session to assist in completing additional majors or minors, distribute their academic load, accelerate their studies, or take maximum advantage of educational opportunities. Visiting students from other accredited institutions take courses for transfer to their home institution.

Newly admitted students (freshmen, transfers and graduates) may begin their work during the summer. Selected high school students may take courses to facilitate their educational objectives.

The first of two six-week terms begins immediately after the May Commencement. Students may earn up to seven credits in each six-week session and a total of 14 for the summer, the equivalent of a semester's work.

Within each six-week term, a number of shorter courses with special pedagogical requirements are offered. Typically these last two or four weeks and usually involve field trips, field study (including international travel), and immersion experiences which use films, videos, or laboratories. Students normally may not take any other courses while taking a short course.

Details are available in a Summer Session Bulletin published at the beginning of the Spring Semester. See also page 238.

Special Course, Program and Activities Requirements

Some University courses, programs or activities require students to travel to locations off campus. When the University does not provide the transportation, or when it does and the student elects not to use it, the student is solely responsible for making his or her own safe and responsible travel plans.

Some University courses, programs or activities also involve internships, practicums, student teaching and the like with third parties outside of the University. Some of these third parties, such as school districts or private sector employers, may require criminal, or similar background checks of the students. Each student must comply with these requests if he or she is to participate in the course, program or activity.

Lectures

Valparaiso University presents lectures by scholars and public figures on topics of scholarship or current interest as an integral part of its academic program. Various endowed and named lectures are also presented each year, bringing distinguished men and women to the campus to address the University community.

The Walter E. Bauer Endowed History Lectureship Fund, established by the family and friends of Dr. Walter E. Bauer, is an annual History Department event to honor Dr. Walter E. Bauer.

Willis Boyd History Lectureship was established by the family and friends in honor of Professor Willis Boyd.

Amanda Gross Memorial Lectures, established by Mr. and Mrs. Walter H. Gross, are delivered annually by outstanding religious leaders to the entire University community.

Vera Therese Hahn Memorial Fund for the Performing Arts will use interest from the fund to bring to the campus artists and lecturers who will contribute to the educational experience of students studying theatre and/or public speaking, said artists and lecturers to be selected by the Director of the University Theatre.

A. G. Huegili Lectureship in Church-Related Higher Education is a lectureship named after Dr. A. G. Huegili to stimulate discussion on key issues concerning Church-related higher education.

Rae M. Huegili Memorial Lectures in Health and Hospital Care provide income for annual lectures in the College of Nursing. This endowed fund was established in memory of the wife of former President Albert G. Huegili because of her long interest in health services.

The Janet Lynn Kerr Memorial Lectureship in Asian Studies is an annual lecture made possible by the family, friends, and colleagues of Professor Kerr, a Christ College faculty member from 1991 until her death in 1999.

O. P. Kretzmann Lectureship in Christian Ethics, established in honor of the late President of the University, is delivered annually. Earnings from the O. P. Kretzmann Memorial Fund underwrite the expenses. At the direction of the President of the University, the lectureship may periodically be replaced with a memorial sermon on a topic related to Christian faith and social issues.

A. J. W. and Clara LeBien Endowment Fund for Lectures on Liturgy provides income for lectures on liturgy and for publication of brochures related to the Chapel.

Monsanto Lectures on Tort Law Reform and Jurisprudence were established at Valparaiso University by the Monsanto Fund. This series is funded by a generous gift from the Monsanto Fund eleemosynary arm of the Monsanto Company. The gift enables Valparaiso University to invite distinguished scholars and professionals to re-examine the theory of tort as it has evolved in this country and to explore alternatives to its reform.

J. W. Miller Memorial Lectures, delivered during Reformation Week by prominent religious leaders, were established in memory of Pastor J. W. Miller, who was an important influence in establishing Valparaiso as a Lutheran University.

The Arnold Moeller College of Business Administration Endowment Lecture was established in 1989. The fund supports faculty research and development within the Business College.

The Warren Rubel Lectures Endowed Fund was established in 1992 by alumni and friends of Christ College to honor Professor Rubel's service to the University and Christ College.

Edward A. Seegers Lectures are presented annually by an eminent legal scholar. The lecture series honors Mr. Edward A. Seegers, a benefactor of the University who endowed the Louis and Anna Seegers Chair in Law. The series is under the supervision of the Seegers Professor of Law.

Percy H. Sloan Memorial Lectures in Art, established as a memorial to Percy H. Sloan, who endowed the Sloan Collection of American Paintings, are presented by prominent artists and art critics.
Endowed Chairs and Professorships

**Richard P. Bepler Distinguished Professor in the Humanities**, endowed by a challenge grant from the National Endowment for the Humanities and generous gifts from alumni and friends of the University, is a rotating two-year appointment of a faculty member in the humanities, established to honor the contributions of Richard P. Bepler and to enhance the interdisciplinary teaching of the humanities in general education.

**The Walter G. Friedrich Professorship of American Literature** was established with the support of the National Endowment for the Humanities and Friends of Valparaiso University to honor the late Dr. Walter G. Friedrich, Valparaiso University professor of English, and to support and encourage high quality teaching in American literature.

**The Frederick F. Jenny Professorship of Emerging Technology** was established by Catherine Jenny in honor of the life and work of Frederick F. Jenny, and to enable the selected College of Engineering faculty member to impart new knowledge to students.

**The Emil and Elfriede Jochem Chair**, a University Professorship established through a gift from Mr. Emil Jochem, supports the study of Christian values in public and professional life.

**The Richard E. Meier Professorship of Management** was established by Richard E. Meier to advance the College of Business Administration.

Special Academic Endowments

**The Louis S. and Mary L. Morgal Endowed Chair of Christian Business Ethics** was established by Louis S. and Mary L. Morgal, with additional support from Proctor and Gamble, Inc., to promote the understanding and practice of Christian business ethics by students, faculty, and the business community.

**The Phyllis and Richard Duesenberg Chair in Christianity and the Arts** is a University Professorship established by Phyllis and Richard Duesenberg to explore, research, write and teach the ethical implications of contemporary social issues from the Biblical perspective and the perspective of Lutheran Symbolic Writings.

**The Phyllis and Richard Duesenberg Chair in Lutheran Music** supports the teaching and study of a faculty member whose efforts focus on Lutheran music.

**The John R. Eckrich Chair in Religion and the Healing Arts**, a University Professorship established by the Lutheran Charities Foundation of St. Louis in memory of John R. Eckrich, supports the study of the interrelationship of faith, ethics and health.

**The Frederick F. Jenny Professorship of Emerging Technology** was established by Catherine Jenny in honor of the life and work of Frederick F. Jenny, and to enable the selected College of Engineering faculty member to impart new knowledge to students.

**The Emil and Elfriede Jochem Chair**, a University Professorship established through a gift from Mr. Emil Jochem, supports the study of Christian values in public and professional life.

**Kruze Organist Endowed Professorship** was established by Frederick J. Kruze in memory of his parents, Edward A. and Anna L. Kruze, for advancing the integral role of organ music at the center of the University's worship community.

**The Richard E. Meier Professorship of Management** was established by Richard E. Meier to advance the College of Business Administration.

**The Faculty Research and Development Endowment**. This fund is being developed by contributions from the faculty and from friends of the University.

**The Albert G. Huegli Library Fund**. This fund was established by friends to honor the former President of the University.

**The O. P. Kretzmann Memorial Fund for Research in the Healing Arts and Sciences**. Established by the Wheat Ridge Foundation, this endowment annually supports faculty research.

**The Library Humanities Fund**. This endowment was created by a major grant from the National Endowment for the Humanities which was matched by friends of the University, and exists to fund acquisitions in the humanities.

**The Sigrid Lindemann Faculty Development Endowment**. This endowment was established by the late Helen Lindemann in memory of her daughter who had taught in the College of Nursing. Its earnings support professional activities and research in nursing.

**The Mechanical Engineering Research Fund and the Civil Engineering Research Fund**. These funds have been developed by the faculty of the College of Engineering to support research.

**The Arnold H. Moeller College of Business Administration Endowed Fund**. This fund is available to the College of Business Administration for purposes of underwriting professional growth.

**The Moody Laboratory Fund**. This endowment supports the development of laboratories in the Department of Mechanical Engineering.

**The Rusch Memorial Library Fund**. The earnings from this fund are used for library materials.

**The Janet Sievers Accounting Faculty Development and Research Endowment**. Established by alumni in memory of Professor Janet Sievers, this fund is used to support professional activities and research in the area of accounting.

**The Judge Luther M. Szygert Memorial Endowment**. Established by his family in memory of the late Judge, this fund supports the Moot Court Program of the School of Law.

**The Endowed Ziegler Family Research Fund for the Humanities**. This fund supports faculty research in the humanities.
INTERNATIONAL STUDY PROGRAMS

In an age of global interdependence, the University strongly encourages its students to acquire part of their education abroad. A variety of opportunities exist which enable students to spend a summer, a semester or a whole year in another country as participants in study-abroad programs sponsored by Valparaiso University.

The University sponsors fourteen programs abroad, two of which (Cambridge and Reutlingen) are exclusively Valparaiso University programs; the other twelve (Tübingen, Puebla, two programs in Paris, Hangzhou, two programs in Japan, Oak Hill in London, Anglia Polytechnic University in Cambridge, College Year in Athens, Namibia, and Granada, Spain) are offered in conjunction with host-institution programs.

Students considering study abroad should consult the Director of International Studies as well as their academic adviser early in their academic program, to ensure the coherence and continuity of that program.

Most financial aid that students receive while attending Valparaiso University may be applied to the fourteen Valparaiso University-sponsored programs. Exceptions may include on-campus employment, some music and athletic scholarships, and tuition remission/tuition exchange. Please inquire in the International Studies Office for more specific information. Credits and grades earned through these programs are treated as though they were earned on campus.

In order to facilitate planning, both by students and the administration, students should apply two semesters in advance of the semester in which they plan to participate. The deadline for applications is the sixth week of each semester, and selections take place in the seventh week. Applications may be submitted through the sixth week of the semester immediately preceding the semester abroad, if spots are still available.

Students are encouraged to participate in study-abroad programs during their junior year. However, sophomore standing during the year or semester abroad is a minimum requirement for admission to all of the programs except the Tübingen and Granada programs, which require junior standing for participation.

Beyond this, the programs have varying requirements for admissions. Some programs have a minimum foreign language requirement for admission.

While the course offerings available through these programs vary considerably, students may frequently satisfy some Major, Minor, and/or General Education Requirements through courses taken in these programs. Students should consult with Department chairs and their academic adviser prior to participation in any program to verify that courses will satisfy certain requirements.

General Education Requirements which have in the past been fulfilled or partially fulfilled by courses taken through these programs include the following: Fine Arts/Fine Arts-Literature, Foreign Language, History/Philosophy, Social Analysis, and Theology.

Participation in any VU study-abroad program fulfills the Global Diversity Requirement.

For the programs in Cambridge, Reutlingen, Puebla, and Hangzhou, students pay regular tuition, the general fee, the double-room fee, and a study-center fee, if applicable (see page 257). For the other programs, students should check with the Director of International Studies concerning payment procedures.

In most cases, the International Studies Office handles the round-trip flight arrangements, but students pay the travel agent directly.

Students who choose to participate in programs sponsored by different institutions, at their own expense, should consult with the Director of International Studies. When students decide on a program, it is necessary to obtain the prior approval of an academic adviser, the Director of International Studies, and the Dean of the College in order to assure in advance that the credit for courses taken abroad will transfer to Valparaiso University. The Registrar’s Office provides a form for this as well as a form which enables students to apply for a leave of absence from the University for the specified time period.

Athens, Greece

Valparaiso University has a study-abroad option in Greece through the College Year in Athens program. College Year in Athens is an independent study-abroad program offering college-level courses in Ancient Greek Civilization. Enjoying an excellent reputation among North American colleges, College Year in Athens enrolls approximately one hundred students per semester.

Program Requirements. Students in good academic standing with at least 16 credits of Greek or eight credits of Greek and nine credits of classical civilization courses are eligible to apply. The junior year, however, is the best time for most students to leave the home campus for study abroad.

Program Curriculum. Students choose from a wide variety of courses dealing with the classical world. These courses, which represent such disciplines as Archaeology and Art, Classical Languages and Literature, History, Philosophy, Politics and Religion, may count towards a major or minor in Classics with the approval of the Chair of the Department of Foreign Languages and Literatures. Normally four courses constitute full-time study.

Valparaiso University’s arrangement is for fall semester only.

Cambridge, England

Directed by a resident professor from Valparaiso University, the Cambridge Study Center provides an ideal setting for eighteen students each semester to integrate their academic work with the rich heritage of Britain. Students live and study in facilities provided by the University, take four or five courses (12-15 credits) taught by distinguished British professors and the resident director, and participate in two or three group tours to various historical regions of Britain. British professors accompany students on these tours, helping them to integrate their cultural experience with their academic learning.

Students may also take a class at nearby Anglia Polytechnic University by special arrangement. One long break provides two full weeks of time for independent travel.

Program Requirements. Sophomore standing is required.

Program Curriculum. Students may take four or five of the following courses. The first three courses are taught by British faculty, the other two by the resident director.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 311</td>
<td>Art Appreciation</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>GEO 318</td>
<td>European Geography</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>HIST 351</td>
<td>English History and Culture</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>GS 390</td>
<td>Topics in English Life and Culture</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>CS 115</td>
<td>Computers and Computation</td>
<td>4 Cr.</td>
</tr>
</tbody>
</table>

Courses may apply toward fulfillment of the following General Education Requirements: Fine Arts/Fine Arts-Literature (ART 311 or GS 390) and some music and athletic scholarships.
International Study Programs

Granada, Spain

In cooperation with Central College in Pella, Iowa, Valparaiso University offers the opportunity to a limited number of students to study at the Center for Modern Languages at the University of Granada in Spain. The semester begins with a three-week orientation program. This program is designed to improve students' oral and written skills, as well as to introduce them to Spanish daily life. At the end of the orientation program, a placement test is given to determine the students' level of Spanish: Intermediate, Accelerated, Honors, or Superior.

Program Requirements. Spanish 204 and at least one additional 200-level Spanish course, junior standing, a grade point average of 3.00 (both overall and in Spanish courses), and approval by the Spanish faculty are required.

Program Curriculum. After successful completion of the three-week orientation program, students may take courses from general categories including the following: Spanish Business, Spanish Civilization and Culture, Contemporary Spanish Economics, History, Regional Geography, Spanish Literature and Language. It is also possible to arrange a service-learning opportunity for two credit hours. All courses are conducted in Spanish and students usually enroll for 12-15 credit hours. This program is available for the fall semester or for the full-year, but NOT for the spring semester.

Hangzhou, China

The city of Hangzhou is well renowned for its cultural history, its tea and silk production, and according to Chinese tradition, for being a paradise on earth. Zhejiang University, which lies just north of West Lake, is the host institution for students wishing to study Chinese language and culture. Students generally study Chinese intensively, while having the opportunity to experience facets of Chinese culture through tours, lectures in English, and demonstration classes of such arts as calligraphy and taichi chuan. The Chinese Culture and Civilization course (EAST 396) involves the creation of a project which combines academic reflection with observation and experience. Additional courses may be offered, depending on the resident director. Students may also pursue independent study of China-related topics while in Hangzhou, with the assistance of faculty from Chinese and Japanese Studies and other departments. Classes are conducted from early September to mid-December, allowing for periods of travel.

Program Requirements. Sophomore standing is required, but there is no prior Chinese language requirement.

Program Curriculum. Students are placed in language courses according to an exam given at Zhejiang University. The following courses are offered:

- **EAST 109** Intensive Elementary Chinese ............................................ 5 Cr.
- **EAST 110** Intensive Elementary Chinese: Conversation ....................... 5 Cr.
- **EAST 209** Intensive Intermediate Chinese ............................................ 5 Cr.
- **EAST 210** Intensive Intermediate Chinese: Conversation ....................... 5 Cr.
- **EAST 395** Chinese Culture and Civilization ........................................ 3 Cr.
- **EAST 495** Supervised Reading and Research ...................................... 3 Cr.

One additional course is offered by the resident director in his or her field of expertise.

**East 109 and 110** are for students with no prior knowledge of Chinese and must be taken concurrently. Students may take both **East 109 (Reading/Writing)** and **East 110 (Conversation)** for credit, or they may take **East 109** for credit and audit **East 110**. **East 209** and **210** are for students with prior knowledge of Chinese and must be taken concurrently. Students taking **East 495** in China must have their proposal approved before going to China.

These courses may apply toward a major in Chinese and Japanese Studies. **East 109, East 110, East 209, and East 210** may apply toward the General Education Foreign Language Requirement. **EAST 395** will satisfy the Fine Arts/Fine Arts Literature and the Global Cultures and Perspectives General Education Requirements.

This program is available in the fall semester only.

Japan

Valparaiso University has two exciting exchange opportunities with sister universities in Japan. The program at Kansai Gaidai, which is located in the culturally rich area between Osaka and Kyoto, offers Japanese language instruction and a number of East Asian studies courses taught in English, including topics in business, art, economics, and history. Students have the option of living with host families or in dormitories located on campus. Students pay all fees, including room, meal plan, and tuition to Valparaiso University. The program is available fall and/or spring semesters.

The program at Osaka International University also offers language study, but has the added feature of a one month internship with a Japanese company or organization. Students engage in intensive language study for the first semester, then spend an interim period in an internship setting, before returning to the Osaka International University campus and taking courses taught in English. Tuition and general fees are paid to Valparaiso University; all other fees, including room and board, are paid directly to Osaka International University. Students have the option of a homestay with Japanese families or living in a dormitory. This program is offered for the whole Japanese academic year only (from September to July), and is especially suitable for business and engineering students.

Program Requirements. Two semesters of college-level Japanese, a grade point average of 3.00, and sophomore standing are required. References from academic advisers and professors are also needed, as well as permission from the Director of International Studies. Admission is competitive.

Program Curriculum. Students are placed in Japanese language classes according to proficiency tests given during orientation in Japan for both programs. Students are required to study the language, but are free to choose other courses among the courses offered as long as full-time status is maintained. Internship placement in the Osaka International University program depends on availability and language proficiency.

Courses taken in Japan may apply toward certain General Education Requirements, or fulfill major and/or minor requirements in Chinese and Japanese Studies, International Economics and Cultural Affairs, or Japanese. The course offerings vary from semester to semester, so students must consult with their academic advisers and the appropriate bulletin to match their course selections with requirements.
Namibia

As a result of a partnership with the Center for Global Education at Augsburg College, Valparaiso University offers a challenging study-abroad program in Windhoek, Namibia, in Southern Africa.

Valparaiso University students live together with other students from the United States and Namibia, as well as with a family for a two-week stay in Northern Namibia. The program also includes a two- to three-week trip to Southern Namibia and South Africa.

**Program Requirements.** Sophomores, juniors, and seniors in good academic standing are eligible to apply. Enrollment is limited to twenty-three students each semester, drawn from colleges and universities throughout the United States.

**Program Curriculum.** The theme for the spring semester is Nation Building, Globalization, and Decolonizing the Mind: Southern African Perspectives, and the tentative offerings include courses in four of the following disciplines: political science, history, religion, interdisciplinary studies, and sociology. The theme for fall semester is Multicultural Societies in Transition: Southern African Perspectives, with a range of courses similar to the spring offerings. Much of the coursework incorporates overseas studies and the people and culture outside the walls of the study center, thus making the semester an outstanding learning experience.

A limited number of Valparaiso University students may study in Namibia either semester.

Paris, France

As a cooperating member of the Central College (Pella, Iowa) program in France, Valparaiso University offers its students a semester or an entire year of study in Paris. The program is intended especially to strengthen students’ facility in the French language and their knowledge of French civilization. Students enroll at the Sorbonne, where the medium of instruction in all classes is French. Advanced Program students may also enroll in the Business Program, which allows students to prepare for the career of business and industry in Paris, certifying proficiency in business French.

**Program Requirements.** French 204 or the equivalent, a grade point average of 3.00, sophomore standing, and approval of the head of the French section are required.

**Program Curriculum.** All students participate in an exciting two-week intensive French language course at the Alliance Française in Nice prior to taking the placement exams and beginning their classes at the Sorbonne in Paris. Based on these exams, Valparaiso University students are placed into one of the following levels:

- **Regular Level**—students take eight semester credits in French Speaking and Phonic/ Grammar and Structure plus seven or eight credits in Central College seminar and Sorbonne intermediate civilization lectures for a total of 15 or 16 semester credits.
- **Advanced Level**—students take eight semester credits in Advanced Speaking, Structure and Composition plus four to eight credits in advanced civilization lectures for a total of 15 or 16 credits.

**Business Level**—designed for advanced students who wish to concentrate on business studies, students take nine semester credits of required courses plus two to four lecture courses from the advanced program for up to 17 semester credits.

Honors Level—designed for exceptional French students who may enroll in either the Business II or Literature tracks. Students take 13 semester credits of required courses plus two to four lecture courses from the advanced program for up to 17 semester credits.

**Central College seminars and Sorbonne courses** vary from year to year, but are generally available in the following fields: Art Appreciation, French Literature, History, Geography, Music, Philosophy and Political Science. It is also possible to arrange a service learning opportunity or an internship after the placement exams at the Sorbonne. Courses are two credits each.

In the Regular Program, courses may apply toward the French or the International Economics and Cultural Affairs majors. In the Advanced Program, certain courses may apply toward the French, International Economics and Cultural Affairs, or International Business majors, or toward a general Education Requirements, including Fine Arts/Fine Arts Literature, History/Philosophy, Social Analysis. This program is available for either a full academic year or for spring semester only.

Paris Internship Program

Students of French may also choose to participate in a study-abroad and internship program in Paris, administered by Boston University.

**Program Requirements.** Minimum requirements for enrollment in this program as a Valparaiso University student are completion of French 204 and an overall grade point average of 3.00. An internship is an enormously valuable experience, but one that places great demands on students’ communication and work skills. For that reason, it is recommended that students with strong French language skills enroll in this program after completion of their sophomore year.

**Program Curriculum.** Students begin the program with a one-week orientation and seven weeks of intensive language course work to prepare them for the internship. Upon successful completion of the language component, students intern in Paris with traditional major areas of study such as Advertising and Public Relations, the Arts, Business and Economics, Film and Television, Health and Human Services, Hospitality Administration, Journalism, and Politics. Past internships have included Galerie Maeght, Antenne 2 Télévision, the Office de Tourisme de Paris, and le Ministère des Affaires Etrangères. This program is one semester only. Students may enroll for either the fall or spring semester.

Puebla, Mexico

The Puebla Study Center is directed by a resident Valparaiso University professor, who also teaches one course. Students take the remaining courses at the Universidad de las Améritas-Puebla. These courses are designed for foreign students and are taught by Mexican professors in Spanish.

Valparaiso University students live in on-campus residence halls with Mexican students. Students with advanced Spanish proficiency may take courses in the regular curriculum of the University. Numerous field trips led by the resident director enhance the students’ academic and cultural experiences.

**Program Requirements.** Spanish 102 or the equivalent and sophomore standing are required.

**Program Curriculum.** Students are placed into language courses by examination.

International Study Programs

**Courses offered include: SOC 330 Points of Intersection: Mexico and the United States ... 3 Cr. Intermediate or Advanced Spanish 4-12 Cr.**

Additional course offerings vary each year. Past offerings taught in Spanish include courses in Art, Psychology, and Political Science. Courses taught in English have included the areas of Economics and Political Science.

Sociology 330 may fulfill part of the General Education Social Analysis requirement. Other courses may apply toward the Spanish major or minor, or toward certain General Education Requirements, including Social Analysis, Fine Arts/Fine Arts Literature, Foreign Language and/or Global Cultures and Perspectives. This program is available in spring semester only.

Reutlingen, Germany

The Reutlingen Study Center, located on the campus of its partner institution, the Fachhochschule für Technik und Wirtschaft, is under the direction of a resident professor from Valparaiso University. Students take four or five courses (13-16 credits), which are taught by the resident director and German professors from neighboring institutions. Except for the German language courses (beginning, intermediate, or advanced), all courses are conducted in English. Several field trips as well as the students’ own travel experiences complement the in-class learning and encourage the development of broad new perspectives. Internship opportunities with German professionals are also a possibility for students with good German language skills.

**Program Requirements.** Sophomore standing is required; no prior knowledge of German is required.

**Program Curriculum.** Courses offered include:

- **ECON 390** Topics in Economics ............. 3 Cr.
- **FLGR 101** First Semester German .......... 4 Cr.
- **FLGR 102** Second Semester German ....... 4 Cr.
- **FLGR 103** Intermediate German ........ 4 Cr.
- **FLGR 204** German Composition and Conversation .......................... 4 Cr.
- **ART 311** European Art and Architecture ............. 3 Cr.
- **GS300/MGT 390** Globalization: Drivers and Dimensions .......... 3 Cr.
- **GS 390** Topics in German Life and Culture ............. 3 Cr.
International Study Programs

German 101, 102, 103 and German 204 may apply toward the General Education Foreign Language Requirement. German 204 may apply toward a German major or minor or International Economics and Cultural Affairs major. Other courses may be used to fulfill General Education Requirements as follows: ART 311 will fulfill the Fine Arts/Fine Arts-Literature requirement; GS 300/MGT 390 will fulfill a College of Business Administration elective; and ECON 390 may be used to fulfill one of the Social Analysis course requirements, one of the 300 level economics requirements for the International Economics and Cultural Affairs major with the approval of the IECA Chair, or a College of Business requirement with the approval of the Dean.

This program is available in either the fall or spring semester.

Tübingen, Germany

Through a special one-on-one student exchange agreement with the Eberhard-Karls-Universität Tübingen, Valparaiso University may send a limited number of students there each year.

**Program Requirements.** German 204 or the equivalent, junior standing, a grade point average of 3.0 or better, and approval of the German section are required.

**Program Curriculum.** The Language and Orientation Program, a six-week intensive course before the beginning of the German academic year, is conducted by the University of Tübingen for foreign students. During the academic year, students may choose from among the varying offerings of the University of Tübingen. The six-week Language and Orientation Program allows students to earn three elective credits towards the German major or minor requirements. Other courses may apply toward certain General Education and/or major or minor requirements; students must consult with relevant department chairs before departure for Tübingen.

This program is available for the full academic year only.

American School of Classical Studies

Valparaiso University is a corporate member of The American School of Classical Studies at Athens which provides Valparaiso University students opportunities for summer study in Greece. Two sessions, directed by the School's Gertrude Smith Professors, are offered annually. These sessions are designed for students who wish to complement their training in the language and literature of ancient Greece with an introduction to the country and its monuments. Housing and meals for participants are provided by the School. Enrollment in each session is limited to twenty students. Students interested in this program should consult with the head of the Classics section.

**Program Requirements.** Six semesters of Greek, History 311, and a grade point average of 3.50 are required. Admission to the summer sessions is highly competitive. Participants include college and university professors, graduate students and highly qualified upper class students.

**Program Curriculum.** The program of the summer sessions focuses on the relationship between the country (its monuments, landscape and climate) and its history, literature and culture. Each session is divided almost equally between the study of sites, monuments and museums in Attica and trips to places chosen by the director in Central Greece, the Peloponnesse, Macedonia, Northwest Greece and the Islands. Participants are required to prepare reports on assigned topics.

Credits may be applied toward a Classics major through Greek 495 (Independent Study). Students must consult with the chair of the Department of Foreign Languages and Literatures.

This program is available in the summer only, from late June to early August.

American Schools of Oriental Research

Valparaiso University is a corporate member of this organization, which has institutes in Jerusalem, Amman, Baghdad, and Cyprus. Several summer training programs in archeology are open to undergraduate students of this University through these institutes.

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University Library Facilities

Moellering Library has an important place in student academic achievement. Being information literate means that students know how to identify, locate, and evaluate information in today's complex environment of electronic, print, video, and audio media. Moellering Library helps students reach a level of independence in finding resources and in understanding the mechanics of information, such as utilizing computers for retrieval and being able to read, interpret, and write citations. They learn information-seeking skills, including how to articulate their research needs. Most important, students learn how to evaluate information, find different viewpoints, and recognize the biases of any author. The library gives customized assistance to enable each student to research any question and fulfill any information need. It also provides instruction in information literacy within courses offered by each academic college.

Moellering Library plays an important role in scholarly communication by organizing print and electronic information for easy retrieval. The library maintains an on-line public catalog of its holdings called Galileo that is searchable in a number of ways, including key word. Galileo is accessible on VU's Academic Data Network from the residence halls, computer labs, offices, or in the library itself. Galileo is also a link on the Moellering Library Home Page <http:// www.valpo.edu/library>. The holdings which Galileo indexes include books, periodicals, government publications, videos, audiocassettes, and musical compact discs. The library owns 424,000 volumes, adding approximately 9,000 new volumes each year. Students may view their circulation records electronically and renew books borrowed electronically via Galileo. Some periodicals and many government publications are acquired by the library in microformat. The library's collection of microforms includes nearly one million units.

The Moellering Library Home Page offers direct access to a rich menu of electronic databases, many with the full text of articles retrieved through topical searches, to provide ready access to scholarly information across the academic disciplines. Students may send the text of articles retrieved to their e-mail boxes for later printing. When articles...
retrieved are found in one of the 2,600 periodicals subscribed to by the library. Students may make photocopies on one of the four copy machines in the building. They may request an Interlibrary Loan of articles that are not held locally. An electronic interlibrary loan form is accessible on the Home Page to streamline this procedure. The average turnaround time for Interlibrary Loan requests is seven working days, but some items are more difficult to locate and the request takes longer to fill. The library is a member of several consortia, including the Private Academic Library Network of Indiana and the Center for Research Libraries, to give scholars access to such materials.

Moellering Library was renovated during 1995-1997 to create an electronic classroom, group study rooms, a newspaper reading lounge, a video viewing room, and enlarge the Audio Library. Individual carrels and study tables are located throughout the building and a vending room is available for study breaks. The library has a variety of seating types to meet the study preferences of a diverse body of students. It has two computer clusters plus several individual workstations enabling access to the Home Page, Galileo, and other information resources. The electronic classrooms are available for booking by students, faculty, and staff whose proposed use is academic in nature, such as a scholarly presentation, group study tables, or a committee meeting.

The Law Library at Wesemann Hall holds a collection of 146,000 bound volumes and 749,500 microforms, with 3,258 current periodical subscriptions. LEXIS and WESTLAW subscriptions add to the rich information resources available for use by Valparaiso University students and scholars. Moellering Library and the Law Library provide the resources and services that connect the University community to the information that each member needs. New services and resources are selected, acquired, and organized to support the mission of the University.

Electronic Information Services (EIS)

Electronic Information Services coordinates and manages servers; data networks including Internet access; communication resources including electronic mail, voice mail, telephone service, video cable, and satellite reception resources; general-access computing facilities; and general-purpose software related to the academic and administrative functions of the University.

Valparaiso University's dynamic information environment provides support for excellent teaching and learning, quality research, effective decision-making, efficient administration, and open communication among the members of the University community.

Computer Network Access.
Residence hall rooms, faculty and staff offices, all general purpose computer clusters, classrooms and laboratories, and many special-purpose computer clusters are connected to the Valparaiso University Network. This network provides access to the Internet, electronic mail, USENet News, library resources, and a variety of software. For those living off campus or away from campus on internships or trips, most resources on the University network, including individual and shared storage space, are accessible via other Internet domains, including commercial Internet Service Providers. Limited dial-up facilities are available for emergency access from off campus when a person's commercial Internet Service Provider is unavailable.

Computer Access for Students.
Most residence halls have a computer site open around the clock for residents. All residence hall rooms have a network connection for each resident, allowing those who bring their own computers to connect to the campus network (computers may not be able to access some resources if they are not Novell Tested and Approved). Each residence hall is assigned a Technology Assistant who maintains the local computer site and assists students. The computer site in the Union is available 24 hours per day during the fall and spring semesters for all members of the Valparaiso University community. Computer facilities in Schnabel Hall are open for general use on an extended schedule except for those times when they are booked for classes.

Moellering Library has a variety of electronic sources of information, including online public access catalog, databases, and references to useful web sites. Patrons may view their circulation record online and renew books electronically. Computer clusters provide network access for the full range of academic activities.

Adaptive Technology workstations are available in several locations including Moellering Library and the Union, for the visually- or aurally-impaired members of the University community.

With few exceptions, students may use Valparaiso University computing resources without direct charge.

Features and Functions. General applications supported include electronic mail, web browser, anti-virus, word processing, spreadsheet, database, desktop publishing, a course management system, web page editing, statistics, and presentation graphics. Many departments have discipline-specific applications on the network or in departmental computing clusters.

Assistance with Resources. The EIS Help Desk is managed by professional staff and student consultants who will answer technology-related questions and route service requests to technical staff. EIS offers free enrichment courses in specific applications, web resources, electronic mail, and basic computer skills throughout the year.

Students and faculty will find much useful information in the Technology Resources Guide distributed jointly by the Library and EIS each fall; in the EIS newsletter Bits & Bytes; and in the weekly electronic mail newsletter, EISNews.

The Valparaiso University Network.
UNIX servers handle electronic mail, web pages, USENet News, administrative data, and many other functions. Shared file space, some library functions, general productivity software, and programs for over 136 discipline-specific applications are handled by Novell servers.

The campus backbone network is fiber optic, currently running 100 Mbps or 1 Gbps Ethernet. Intra-building networks are 10 Mbps switched Ethernet or Ethernet. Internet bandwidth is managed to ensure proper flow of academic and administrative traffic.

Planning. An ongoing strategic planning process, involving students, faculty, and staff, helps apprise the University of technological developments and ensures consideration of budget requests for technology.
HONORS AND AWARDS

Graduation with Honors

Students who have been in attendance at Valparaiso University at least two years (a minimum of sixty credit hours) and who have maintained a standing of at least 3.80 in their work at this institution are graduated Summa Cum Laude.

Students who have been in attendance at Valparaiso University at least two years (a minimum of sixty credit hours) and who have maintained a standing of at least 3.60 in their work at this institution are graduated Magna Cum Laude.

Students who have been in attendance at Valparaiso University at least two years (a minimum of sixty credit hours) and who have maintained a standing of at least 3.40 in their work at this institution are graduated Cum Laude.

Semester Honors

Undergraduate students who achieve a standing of 3.50 in any semester are awarded honors under the following restrictions:

1. The student received no grades of I or U at the official end of the semester concerned;
2. The student completed at least fourteen credit hours of work for that semester on campus or at least twelve credit hours in an International Studies Semester, Special Off-Campus Semester or any other approved cooperating program.

Christ College. Graduates who complete the requirements of the honors college, Christ College, are designated Christ College Scholars or Christ College Associates.

Departmental Honors. Students in many departments of the College of Arts and Sciences may be awarded honors in their field of study provided they meet the specific requirements described on page 53.

Honor Societies

NATIONAL FRESHMAN HONOR SOCIETY

Alpha Lambda Delta. This national honor society recognizes women and men who achieve high scholastic standing during their freshman year.

NATIONAL SENIOR HONOR SOCIETY

Mortar Board. This national honor society recognizes outstanding men and women for leadership, scholarship and character.

NATIONAL COLLEGE HONOR SOCIETIES

Alpha Epsilon Delta. This national honor society recognizes students who have achieved academic distinction while pursuing a premedical or predental program.

Alpha Sigma Lambda. This national honor society is devoted to the advancement of scholarship and to the recognition of students in continuing higher education programs.

Beta Gamma Sigma. This national honor society is restricted to students in business schools which have achieved accreditation from the American Assembly of Collegiate Schools of Business. Students in the upper ten percent of the junior class and the upper seven percent of the junior class of the College of Business Administration are eligible for membership.

Sigma Theta Tau. This international honor society for nursing elects outstanding upper class students to membership on the basis of scholarship, leadership and character.

Tau Beta Pi. Engineering students who have demonstrated high academic achievement, exemplary character and a breadth of interest in the field of engineering are eligible for membership in this national engineering society.

VALPARAISO HONOR SOCIETIES

Lumina Award. This honor is presented in the spring of the junior year to students enrolled in the College of Arts and Sciences whose cumulative grade point average for the five preceding semesters is 3.60 (level of Magna Cum Laude) or above. It is awarded by the Arts and Sciences Scholarship and Advising Committee and the Dean of the College.

DEPARTMENTAL HONOR SOCIETIES

Accounting - Accounting Society Chemistry - Phi Lambda Upsilon Classics - Eta Sigma Phi Decision Science - Alpha Iota Delta Drama - Alpha Psi Omega Economics - Omicron Delta Epsilon

Honors and Awards

Education - Kappa Delta Pi English - Sigma Tau Delta French - Pi Delta Phi Geography - Gamma Theta Upsilon German - Delta Phi Alpha History - Phi Alpha Theta Journalism - Society of Collegiate Journalists Marketing - Alpha Mu Alpha Meteorology - Chi Epsilon Pi Music - Pi Kappa Lambda Philosophy - Phi Sigma Tau Physical Education - Phi Epsilon Kappa Physics - Sigma Pi Sigma Political Science - Pi Sigma Alpha Psychology - Psi Chi Social Science - Pi Gamma Mu Sociology - Alpha Kappa Delta Spanish - Sigma Delta Pi Theatre - Alpha Psi Omega

Awards and Prizes

Bauer Award. This prize is presented annually by the History Department to the history major who has written the best historical paper during the year. The award is made in the name of Dr. Walter E. Bauer, Distinguished Service Professor Emeritus of History.

The Bluemel Award. Awarded to a College of Nursing graduating senior who demonstrates determination, perseverance, a sense of humor, a desire to elevate the standards of nursing, recognition of the importance of the role of the nurse in prevention of illness, and a concern for human worth and dignity, regardless of race, creed, or culture.

Delta Sigma Pi Award. Awarded to a College of Business Administration senior with the highest cumulative grade point average after seven semesters of study.

The Donnelley Prize. The Donnelley Prize annually rewards the best student essays on humankind’s relationship to the environment, with a cash award of $750 and support for summer internships or research in environmental issues, particularly in the Chicago region. Environmental and biomedical ethicist Strachan Donnelley, Ph.D., a former Christ College faculty member and Vivian Donnelley, a Valpo alumna, endowed the prize.

Bruce and Linda Eastmond Award. These are annual awards presented to an outstanding senior student in the College of...
Honors and Awards

Engineering and an outstanding senior student in the College of Arts and Sciences.

Roger and Hazel Guillaumant Award. This award is presented annually by the Department of Foreign Languages and Literatures to the French major who has demonstrated outstanding achievement and promise in French studies. It is given in honor of Professor Emeritus Hazel Guillaumant and her husband, Roger.

The Patterson MacLean Friedrich Scholarship. The Friedrich Scholarship is awarded annually to the outstanding junior student majoring in French at Valparaiso University.

The Victor Hoffmann Award. Each year the Beta Nu Chapter of Pi Sigma Alpha, national honorary political science organization, presents an award to the outstanding political science major voted by the faculty of the Political Science Department.

Howard K. Hughes Mathematics Prize. An annual award is presented to the Valparaiso University student who shows the greatest proficiency in the first four calculus courses. This proficiency is demonstrated through participation in the Hughes Mathematics Competition which takes place in the spring semester of each academic year.

Indiana CPA Society Award. Awarded to the outstanding senior accounting student in the College of Business Administration.

Indiana Medical Association of Northwest Indiana Scholarship in Nursing. This award is presented to a student entering the senior year, in memory of the founder of Infant and Child Special Care, Valparaiso, now part of Children’s Memorial Hospital. The $1,000 award was established to encourage interest in the practice of pediatric nursing. The student must demonstrate academic and clinical excellence in the nursing care of children and an expressed interest in specializing in pediatric nursing.

Anna Zink Springsteen Prize. This prize is awarded to a senior, preferably an English major who has made a substantial contribution to campus life with special gifts in poetry composition.

Margot Ann Uehling Endowed Scholarship Prize. Awarded annually to an undergraduate student who writes the best non-fiction prose essay.

The Wall Street Journal Award. Awarded to the outstanding senior business administration student in the College of Business Administration.

Medals

Lumen Christi Medal. This medal is awarded to a lay person for distinguished service to Lutheranism. It is the highest honor Valparaiso University can bestow.

Medal of Merit. This medal is an award to recognize the outstanding service to society by the recipients through their chosen calling and by their exceptional activity in the advancement of the mission of Valparaiso University.

Moulton.

The Ronald G. Reidenbach Prize in Music. An annual award honors a graduating student of church music who has made a significant contribution to campus life. The award is made in memory of Ronald G. Reidenbach, alumnus of the University and musician to Lutheran churches in Ohio, Illinois, and Maryland.

The Dorothy Paulsen Smith Award. Awarded to a College of Nursing graduating senior whose quest for excellence has reflected the spirit of the College of Nursing. Criteria for choice include demonstrated scholarship and leadership, openness and enthusiasm, energy and creativity, empathy and compassion.

The Donna Spanopoulos Memorial Scholarship in Pediatric Nursing. This award is presented by the Spanopoulos family each spring to a student entering the senior year, in memory of the founder of Infant and Child Special Care, Valparaiso, now part of Children’s Memorial Hospital. The $1,000 award was established to encourage interest in the practice of pediatric nursing. The student must demonstrate academic and clinical excellence in the nursing care of children and an expressed interest in specializing in pediatric nursing.

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Moulton.
to the traditions and regulations of the University is expected. The University reserves the right to suspend or dismiss any student at any time when, in the judgment of its authorities, that action is deemed to be in the best interests of the institution. Such a decision is normally made by the Associate Provost for Student Affairs on the recommendation of the Campus Judicial Board. The student-initiated Honor System has a long history at Valparaiso University and is a strong distinguishing characteristic of the institution. It is in every way consistent with the highest principles of Christian ethics and morality. In sanctioning the Honor System, the University presumes that students are able and willing to accept the duties and responsibilities of honor and the conduct for the sake of the Valparaiso University community. Before they can enroll at the University, all entering students must sign and submit a statement that they understand the Honor System and are aware that all of their academic work must be submitted under their signature and that they have done this work in agreement with the Honor Code. The statement that "I have neither given or received nor have I tolerated others' use of unauthorized aid" must be written out and signed on all written work.

Under the Honor System, all written examinations of any length are taken in an atmosphere free from the surveillance of a proctor, unless requested by a student member of the class. Every student has the responsibility to keep academic work free of dishonesty; that is, neither to give nor to receive unauthorized aid. All students must report to the Honor Council any violation of the System of which they become aware. Students are required to sign a pledge on all work submitted for academic credit as indicated above.

The Honor Council is an educational, preventive, remedial and judicial body with the duty of maintaining the Honor System in the academic community. The Council hears Honor Code cases and then makes decisions about whether or not a student has violated the code and assesses any penalties. The Council is composed of students and faculty who are chosen by the student members subject to the approval of the President of the University.

The Arts

The mission of the program in the visual and performing arts at Valparaiso University is to educate the minds of students by opening their eyes and ears to the best of their artistic heritage and the joy of artistic expression. The University offers its students a range of arts education opportunities through its general education curriculum; co-curricular activities in art, music, dance, and creative writing; and academic majors in the departments of visual and performing arts which permit students to make the arts a focus of a liberal education for personal and professional development and for creative leadership and service. At Valparaiso University, the arts serve primarily the students, while also serving the faculty and staff and the larger community of the region.

Music. The Department of Music offers all students the opportunity to study and perform as singers and instrumentalists in an array of curricular and co-curricular ensembles. Students wishing to perform in selective ensembles may audition for the Valparaiso University Chorale, the University Symphony Orchestra, the Kantorei, and the Concert Band, as well as a variety of chamber ensembles including Woodwind Quintet, String Quartet, Percussion Ensemble, Brass Ensemble, and others. Other auditioned ensembles include: University Singers, Luce Band, Jazz Lab Band, and Gospel Choir. The University-Community Band is open to all students with no audition required. A number of additional student-organized performing groups (including Crusader Band, Handbell Choir, and Matina Choir) are also sheltered by the Department. For an additional charge, limited number of students may enroll in private music lessons in voice, piano, guitar, organ, and most orchestral and band instruments.

Theatre. The University Theatre brings the best of classic drama, new plays, musicals, and operas to the Valparaiso University Center for the Arts. Soul Purpose, a touring liturgical drama troupe, travels to churches throughout the nation, and Theatre Outreach Performances (TOP) performs plays on social issues for local and regional schools. Theatre opportunities are available for any student interested in dramatic arts.

Student Life

Theatre work is focused in performance, production, and management. Advanced students regularly supervise in all areas.

Art. The Art Department offers basic studio courses in painting, drawing, digital art, design, graphic design, sculpture, photography, ceramics, film, and art education, and art history. Galleries exhibit student work as well as distinguished work by visiting artists. The Sloan Collection of American Paintings is the core of the Brauer Museum of Art, with holdings of over 2,000 works of art. Summer programs of study overseas provide students with immediate experience of Western cultural heritages.

Dance at Valparaiso University. Through learning and participating in dance, students are able to reflect on the ways dance is part of the human experience in general, and more specifically, as part of one's own life. Each semester students may choose from two different dance courses offered through the Department of Theatre. Styles covered are ballet, tap, jazz, and modern. In addition to these mainstay courses, a non-traditional dance course is usually offered every other year. Topics covered in the course may include dance improvisation, musical theatre styles, or another topic that relates directly to an upcoming theatre production.

University Dance Ensemble. Under the leadership of Department of Theatre faculty, the University Dance Ensemble meets regularly throughout the academic year for technique classes and choreography. All university students are welcome to join. Academic credit can be given for those students choreographing or performing in the annual Concert of Dance. The University Dance Ensemble regularly invites dancers from the surrounding northwest Indiana community to perform with the ensemble as part of its mission to make dance a more visible part of the community.

There are numerous performance opportunities for interested dancers and student choreographers. Past performances have included the opening of the Center for the Arts, museum openings, Advent Vesper services, liturgical dance at area churches, Department of Theatre productions, Festival of Dance, as well as the annual Concert of Dance. This annual concert highlights faculty, student, and guest choreographers.

Athletics

Valparaiso University provides a varied athletics program which assumes that sports can play a major role in college life by encouraging wide participation by the student body. The Athletics-Recreation Center is a major indoor facility. Outdoor facilities include tennis courts, all-purpose intramural fields, a hard surface track and fields for varsity baseball, football, and soccer. Although the University provides an experienced staff and takes every precaution to avoid injury to all participants in the intercollegiate and intramural programs, it assumes no responsibility for accidents; students participating in these activities do so at their own risk.

Intramural Sports/Campus Recreation. Valparaiso University is committed to a comprehensive program of recreational sports. A wide variety of team and individual sports are scheduled throughout the academic year. Students are also encouraged to participate in the many informal recreational activities, special events, and clinics offered by the Athletics-Recreation Center staff.

Intercollegiate Competition. Women's sports offered are: basketball, cross country, soccer, softball, swimming, tennis, indoor and outdoor track and volleyball. Membership is maintained in the National Collegiate Athletic Association. The women's teams participate in the Mid-Continent Conference.

Men's sports offered are: football, basketball, baseball, soccer, cross country, swimming, tennis and indoor and outdoor
Committee on Residences. The Committee on Residences is responsible for making recommendations regarding residence hall policies, procedures, and programs.

Administration Committee. The Administration Committee recognizes and monitors all student Senate recognized organizations.

Finance Committee. The Finance Committee is responsible for developing and submitting a budget to the Student Senate and for reviewing all requests for special appropriations by student organizations.

The Valparaiso Union Board. The Valparaiso Union Board develops, presents and coordinates social, recreational and educational events and programs to broaden student acquaintances and improve student life.

Fraternities and Sororities

Active chapters of national Greek-letter social and philanthropic fraternities on campus include Lambda Chi Alpha (colony), Phi Delta Theta, Phi Kappa Psi, Phi Sigma Kappa, Sigma Chi, Sigma Phi Epsilon, Sigma Pi, Pi Kappa Phi, Delta Tau Gamma and Theta Chi. National Greek-letter social and philanthropic sororities include Alpha Delta Pi, Chi Omega, Delta Delta Delta, Gamma Phi Beta, Kappa Delta, Kappa Kappa Gamma, and Pi Beta Phi.

The governing body of the sororities is the Panhellenic Council. The governing body of the fraternities is the Interfraternity Council. Fraternities are housed in their own individual residences. Sororities are housed in Scheele Hall, in individualized units with chapter rooms on the main floor of the building.

Clubs and Interest Groups

Clubs and interest groups abound on the campus. They focus on a variety of activities including academic and professional interests, hobbies, recreational activities, cultural interests, activities connected with the Chapel, religious interests, politics and service projects.

Alpha Phi Omega is a national, co-ed service fraternity with chapters in approximately 350 institutions of higher education. For over seventy-five years, it has set the standard for college campus-based volunteerism; the Valparaiso University chapter was chartered in 1948.

Students are encouraged to work in any aspect of campus publications and broadcasting, including writing, editing, advertising, sales, photography and layout. A student/faculty Committee on Media is responsible for the policies and regulations governing these activities.

The Beacon, the University yearbook, is designed and edited by students. It offers experience in art work, editorial work and advertising.

The Lighter, a student literary magazine, is published twice a year and welcomes contributions from all members of the University student community. Art work, especially photography, is also a feature of this publication.

The Torch. The Torch is the student newspaper. A weekly publication, it covers a wide range of campus activities and involves students interested in all aspects of journalism.

WWVR. The campus radio station WWVR (95.1 FM) offers students the experience of on-air work, management, sports broadcasting, news and weathercasting, and various production work.

Organizations

Student Senate. The Student Senate is empowered by the Instrument for Internal Governance of the University with executive, legislative and judicial powers over the student body. The Student Senate affords students the opportunity to assume the privileges and responsibilities of self-governance. It also coordinates the major committees of Media, Residences, Union Board, Finance and Administration.

Committee on Media. The Committee on Media is responsible for policies and regulations of the University's student publications, as well as policies and regulations for the campus radio station, WWVR.

Volunteer Programs

Volunteer Opportunities in Community Engagement. The Volunteer Programs Office or (V.O.I.C.E.) provides a clearinghouse of opportunities for students who wish to volunteer their time in service to the community. Students learn the rewards of volunteering, building self-esteem, assuming social responsibility, developing new friendships, all while providing help to those in need. Students placed by V.O.I.C.E. serve in a variety of positions including tutoring adults, teenagers, and children; visiting the elderly; working with the disabled and mentally challenged; and participating in the Christmas in April program. To learn more about Volunteer Programs please call (#6710).

The Valparaiso Union

The Valparaiso Union, a community center for all the members of the campus, strives to provide quality facilities, services and conveniences needed by members and guests of the University. The Union also develops programs that are responsive to student developmental needs and to the cultural, social, recreational, and educational needs of the campus community.

The Valparaiso Union provides students with a place to meet, relax and study; a headquarters on campus for commuters; a place where students, faculty and administration can develop acquaintances outside the classroom; a place to entertain and be entertained at programs, dinners and receptions; a place for recreation; and an information and service center.

As one of Valparaiso University’s largest student organizations, the Union Board
The Union also provides a 24-hour lounge, computer lab, commuter student facilities, student organization offices, meeting rooms, and a dining and social activities space called The Round Table. The Valparaiso Union is fully accessible to persons who are physically challenged.

**Union AdWorks** is available to any campus group to publicize programs. Campus events may be advertised through posters, flyers, buttons, brochures, announcements and mail box stuffers.

The Union Information Desk provides answers to questions and sells popcorn, candy, gum, student identification cards, tickets for trips and special events, and discount movie tickets. Also offered are magazines to read during visits to the Union, a fax machine service, lost and found, a dictionary, and telephone directories.

Other Union services include a ride board, a cash machine, bulletin boards, art exhibits, televisions, audio/visual services, copy machine, and event planning assistance.

**Dining Services** operates Jesters, which provides daily breakfast, lunch and dinner items and a snack shop in The Round Table. Dining Services also provides catering services for banquets, luncheons, and receptions.

**Campus Ministry**

The ministry of Word and Sacraments centers in the Chapel of the Resurrection. A ministry is also carried on in the residence halls and fraternity houses.

Students and faculty participate with the University Pastor and University Associate Pastor in preparing a wide range of services. In addition to holding services on Sunday and throughout the week at various times, the University has appointed 11:15 for Morning Worship Monday through Friday when members of the community may come together for prayer and praise. Pastoral counseling is available at any time.

Students participate in the Kantorei and University Singers, as well as other choirs which sing for chapel worship services; serve as organists for daily services; and serve as cantors and instrumentalists for Sunday and weekday services. Students plan chapel decorations and decorate the chapel for the seasons of Advent, Lent, Holy Week and Easter, as well as assist in the

contribution of the arts for other chapel services.

Students chair chapel ministry groups of worship, social concerns, and outreach, as well as chapel service groups such as Altar Care, acolytes and ushers. All students are invited to participate in these and other areas of ministry.

St. Teresa's, the Roman Catholic Student Center at Valparaiso University, is located across the street from the university campus at 1511 LaPorte Avenue. The center is staffed by a full-time chaplain. Sunday and weekday Masses, as well as a full program of pastoral ministry, are conducted at the center.

Every courtesy is shown to pastors of the other Christian churches in Valparaiso who wish to conduct a ministry for students of their denomination. The Chapel Office will assist anyone seeking information regarding worship opportunities at area congregations and their ministry.

**Services For Students**

**Leadership Programs.** The staff of the Valparaiso Union and the office of the Dean of Students provide students the opportunity to explore and develop their leadership potential through programs such as the Student Leaders Workshop and the All Campus Leadership Conference. These experiences allow students to explore the dynamics of leadership.

**The Office of Multicultural Programs.** In collaboration with the campus community, the Office of Multicultural Programs (OMP) provides a variety of support programs and services designed to address the specific academic, cultural, and social needs of underrepresented groups (African-American, Asian/Pacific Islander, Hispanic/Latino, and Native American students).

OMP develops and implements programs that build collaborative communities, improve human relations, and promote multicultural education and cultural awareness.

The Martin Luther King, Jr. Cultural Center (MLKCC), located next to the School of Law, provides students from different cultures a place to relax, hold meetings or study. At the MLKCC, students may utilize the computer room, the Neal Multicultural Resource Library, a fully equipped kitchen, and a reception area.

The Office of Multicultural Programs serves as a liaison and provides support to many Valparaiso University organizations and their programs. Student organizations include the Black Law Student Association (BLSA), the Black Student Organization (BSO), Latinos in Valparaiso for Excellence (LIVE), the Hispanic Law Student Association (HLSA), and the Asian American Association (AAA).

Program highlights include the M & M Mentoring Program, Identity & Culture Series, Hearst Scholarship, Book Loan Program, MOSAIC newsletter, Annual Peace and Justice Symposium, and Study Circles on Race Relations.

**The Career Center.** The Career Center is a comprehensive career services facility offering a wide array of services to students of all colleges, freshmen through seniors. Located in Alumni Hall, the Career Center houses a career library, conference/workshop room, student interview lounge, private interview rooms, and staff offices.

Services include career counseling, cooperative education information and orientation, and job search and employment assistance. Individual resume and cover letter critiquing is available as well as assistance with other job search tasks.

On-campus interviews with a variety of employers also occur in the Career Center. Listings of full-time, part-time, internship and summer job opportunities are available and entry-level opportunities appear in the web-based Job Opportunities Bulletin (J.O.B.). Co-op opportunities are also posted on the Career Center website. A comprehensive career library contains books, videos, school catalogs, directories, and employer literature assists students in formulating and implementing career and educational plans.

Workshops offered by the Career Center inform students about cooperative education, on-campus interviewing, job fairs, and graduate schools. Two weeks of video interviews feature employers who donate a day of their time to assist students with interviewing skills. An annual Etiquette Dinner helps students to polish their interviewing social skills. Additionally, the Career Center hosts an annual Career Fair to help connect Valparaiso University students with employers.

The Career Center hours are 8 to 5.
Monday through Friday. Appointments with a professional staff member may be arranged in person or by calling 464-6005. The website for the Career Center is <www.valpo.edu/career>.

Student Counseling and Development Center. The services provided by the Student Counseling and Development Center emphasize both the prevention and remediation of problems of individuals and groups of the university and are confidential and free of charge. Specifically, the Student Counseling and Development Center offers individual and group counseling sessions for persons with emotional, interpersonal, family, or academic skills problems; psychological testing of personality and personal development; training on a wide variety of topics; a website founded on respect for the belief of students or other persons who are seeking counseling. The counseling relationship is founded on respect for the individual and his or her potential for growth. In the counseling process, the student and the professional work collaboratively to set and achieve mutually agreed upon goals. Choice and responsibility by the individual are emphasized.

The Student Counseling and Development Center also provides individual and group study skills training and support to increase students’ chances for academic success. Additionally, the Center’s Outreach Services include the provision of presentations, seminars, and workshops on topics related to mental health and wellness.

Sexual Assault Awareness and Facilitative Education Office. The Sexual Assault Awareness and Facilitative Education (SAAFE) Office provides advocacy services to individuals (male and female) who are survivors of sexual assault. Advocates meet with survivors at their request at a confidential location and provide them with information about their rights, options that exist in dealing with the assault, and support in their decision making process. All of this occurs within the realm of confidentiality. The SAAFE Office also provides support services to the significant others of the victim, and support services for victims of sexual harassment. The Office offers individual and group counseling related to issues of gender, sexual issues, and relationship issues. The SAAFE Office also provides peer education as a means to broaden awareness of gender, sexual and relationship issues and to aid in the prevention of sexual assault. The SAAFE Office Resource Center contains videos and written materials available to students. All student organizations and campus groups may request a variety of programs ranging from informational to interactive workshops and related subjects. SAAFE Advocates and Peer Educators provide outreach programs for students through a web page and e-mail, through various campus sponsored weeks such as the "Week of Challenge" and through various events such as a coffee house forum. The SAAFE Office is located on the second floor of the Health Center Building. To access the office, go to the back of the building and enter through the door to the stairwell. If an appointment is desired, please call 464-6860. Emergency access is available by calling 464-6789.

Office of Alcohol and Drug Education. The Office of Alcohol and Drug Education provides substance abuse prevention efforts on campus through proactive outreach programs to student residences and organizations by means of peer education. It also offers education to at-risk students through the combined efforts of a referral, assessment and group program. A licensed, Masters level, clinical social worker provides screening and referral services to those experiencing problems with substance abuse, whether those problems lie in themselves or in those close to them. The office is open 8:00 a.m. to 5:00 p.m., Monday through Friday. It is located in Room 108 in the basement of Miller Hall (the Education building).

The Valparaiso University Student Health Center. The Student Health Center provides an environment that encourages individual student responsibility for maintaining good health. It promotes health care through the services of Advance Practice Nurse Practitioners and a consulting Physician. Confidential services covered by student fees include assessment, some minor laboratory analysis, and treatment of minor illness and injury. Allergy injections, gynecological exams, and some immunizations are provided at the Health Center for a nominal fee. Students with illnesses or injuries that require more extensive treatment are referred to physicians in the community. Students or their parents are expected to pay for the costs of such treatment if it is not covered by the student medical plan.

A basic student medical plan is provided to all full-time undergraduate and full-time law students. The cost is included in the student’s general fee, which is paid at the beginning of each semester. Please review the Student Medical Plan brochure for information about services covered under this plan.

All full-time students are required to have on file a completed Health History form. This form requires documentation of immunizations signed by a health care professional in order to attend Valparaiso University. Only health records in English or health records accompanied by certified translations into English will be accepted. A student is not required to comply with the University until his/her Health History form has been reviewed and approved by Health Center staff. A $50.00 nonrefundable charge will be added to the student’s account if the Health History form is not received and approved prior to the start of his/her first semester.

The Health Center is located at 1406 LaPorte Avenue, just west of Scheele Hall and across the tennis courts. The student Health Center is open from 8:00 a.m. to noon and 1:00 p.m. to 5:00 p.m., Monday through Friday. The office is closed on Tuesday and open on Wednesday and Friday when undergraduate classes are in session. Contact the Health Center by phone (219) 464-6060, fax (219) 464-5410, or e-mail <Health.Center@valpo.edu>. In case of emergency, when the Health Center is closed, students may use the services of the Emergency Room at Porter Memorial Hospital located at 814 LaPorte Avenue.

Students who require immunotherapy (allergy) treatments may receive their treatment through the Student Health Center. Appointments are required and students are charged a fee for their injections. The Health History form must be on file. The student is responsible for making sure the ordering allergist completes the Immunotherapy forms as well as transporting vials. Orders on the allergist’s stationary or forms are not acceptable.

Students who plan to take advantage of this program should call the Health Center for further instructions.

The ASK Center—Academic Support Keys. The ASK Center provides a referral service to various academic support programs at Valparaiso University and promotes academic success for all undergraduate students. The ASK Center is located in Huegli Hall 132 and the hours are 8:00 a.m. to 5:00 p.m. Monday through Friday. By calling 219/464-6275 (5ASK), referrals can be made for Academic Advising, Disability Support Services, the Writing Center, Tutoring, and VU Strategies.

Academic Advising. One of the benefits of an education at Valparaiso University is the availability of experienced faculty members for personal conferences and advising. Many of these sessions develop informally. A formal system of advising is in place in each of the colleges.

Enterings students are assigned to an academic adviser to assist them in selecting a curriculum, meeting University requirements and making the most of their studies.

In the College of Arts and Sciences, students who have not declared a major are assigned a general adviser. As soon as students declare a major, they are assigned to a departmental adviser by the chair of their major department. Students in a special program are assigned a program adviser. The major field or interdisciplinary program of study should be chosen by the beginning of the sophomore year. Some majors and programs, for example teacher certification and premed, require students to declare their intentions and begin their programs at the beginning of the freshman year to make it possible to complete the degree or certification requirements in four years.

All students must have their proposed schedule for the next semester signed by their academic adviser before it is filed with the registrar. If the student has more than one adviser (e.g. a departmental, special program, Christ College), the student should have the signature of the special program adviser, after consulting with the other adviser(s). Advisers’ signatures indicate only that they have counseled the student, not that they approve the schedule. Nor does the adviser’s signature guarantee that the schedule will meet the requirements of the student’s program.
The provision of academic accommodations to students with disabilities who are seeking academic accommodations and support. The student must have met all qualifications for admissions and be officially admitted to the University prior to seeking academic services provided by Disability Support Services. Inquiries should be directed to the Student Life Center at Huskie Hall, x5275.

The University is committed to meeting its obligation to provide effective auxiliary aid and assistance to students who are disabled. The provision of auxiliary assistance is primarily the responsibility of the Department of Rehabilitation Services of the state in which the student maintains legal residency. If the student requests for assistance is denied by the local agency, Valparaiso University's provision of academic accommodations will be based upon a case by case analysis of an individual student's need and his/her eligibility under the ADA and Section 504 of the Rehabilitation Act of 1973 and its regulations.

In order to be considered for academic accommodations, the student:
1. Must submit a written diagnosis of the disability and its impact on learning from appropriate professional personnel.
2. Should notify the Disability Support Services in writing before the first day of classes or as soon as is reasonably possible upon diagnosis of a disability, in order to allow time for funding to be allocated. Upon request the University will assist in the application.
3. Must submit a written diagnosis of the disability and its impact on learning from appropriate professional personnel.
4. Should notify the Director, Disability Support Services in writing before the first day of classes, or as soon as is reasonably possible upon diagnosis of a disability. Such notice is required to determine eligibility and to provide the necessary academic and service areas a reasonable period of time to plan to meet the individual's special needs.

**Disability Support Services.** Valparaiso University, through its Mission Statement, strives to maintain a supportive environment which will promote the learning and well-being of all students. The following information is provided to assist those students with disabilities who are seeking academic accommodations and support.

The student must have met all qualifications for admissions and be officially admitted to the University prior to seeking academic support services provided by Disability Support Services. Inquiries should be directed to the ASK Center at Huegli Hall, x5275.

3. Must submit a written diagnosis of the disability and its impact on learning from appropriate professional personnel.
4. Should notify the Disability Support Services in writing before the first day of classes, or as soon as is reasonably possible upon diagnosis of a disability. Such notice is required to determine eligibility and to provide the necessary academic and service areas a reasonable period of time to plan to meet the individual's special needs.

**The Writing Center.** At the Writing Center in Schnabel Hall undergraduate or graduate students may discuss writing projects with peer consultants or the professional staff member. Conferences center on planning, revision, editing, and bibliography or citation matters. Stylebooks, table space, and computer resources make the Writing Center an excellent place for work on group projects. Confer by dropping in or making an appointment, Sunday-Friday; call 464-5216 for hours. FAX, phone, and e-mail conferences are also available; fax to 464-6742 or e-mail to writing.center@valpo.edu. For more details of appointment hours and on-line resources, visit www.valpo.edu/writctr.

**Core Colleagues.** The Center supports the Freshman CORE, the Human Experience course for first-year students, by offering writing conferences in several residence hall computer clusters. Occasional evening events related to assignments are also scheduled. Since these consultants have just completed CORE, they have firsthand experience with the texts and issues students face as they prepare for class.

**Tutoring.** The ASK Office, located in Huegli Hall (phone 464-5216), supports various levels of tutoring. A semester-by-semester schedule of departmental help/study sessions is one of the services provided. In addition to publishing the departmental help sessions schedule, the ASK Office supports the following types of tutoring:
1. Work with the professor—It is strongly suggested that the first option for help in a course is for the student to work directly with the professor. Frequently simple problems can be made more understandable with this communication.
2. Study Groups—It is often suggested that students gather in small groups and work with each other in mastering class problems. This reinforces points from daily lectures and supports good study habits. On occasion the ASK Center will select a leader who has been successful in the course to help the group. This student is selected at the professor’s recommendation. The ASK Center also hires a tutor who has satisfactorily completed the course or is a major in that discipline, who can lead the study group.

**VU Strategies.** This course is designed for first year students who want to enhance their adjustment to college academic life by strengthening such skills as time management, assertiveness, organization, test-taking, note-taking, determination of learning style and study techniques. It is a seven-week course repeated three times throughout the year. It carries a Satisfactory/Unsatisfactory outcome.

All tutoring sessions supported by the ASK Center uphold the standards set by the University’s Honor Code. It is the student's responsibility to know what is authorized and unauthorized aid.
The College of Arts and Sciences, the largest college of the University, consists of twenty-one departments and provides the University with its program of general education for all students as well as advanced work in the liberal arts, the sciences and in several professional areas. Each degree in the College consists essentially of two parts:
1. The general education component;
2. The major field or interdisciplinary program.
To these two parts, the student adds elective courses chosen from all the offerings of the University, often including a minor or minors.

General Education
An overview of the general education program is presented on page 10. Although this pattern applies to every degree in the College, certain variations are specified in the detailed presentation of degree requirements below.

The Major Field
Each student must complete a major field of study or an interdisciplinary program. Ways of meeting this requirement are presented in detail in connection with the degree requirements listed below. These options are intended to offer maximum flexibility so that students may find the courses of study best fitted for their interests and needs.

Degrees and Degree Requirements

ASSOCIATE OF ARTS DEGREE

A. General Education Requirements
This degree is available only to students enrolled in the College of Adult Scholars.
1. CORE 110 .................................. 5 Cr.
2. CORE 115 .................................. 5 Cr.

College of Arts and Science

B. Concentrations .......... 21 Cr.
Beyond completing the general education requirements, students select one of the following concentrations. Coursework used to meet general education requirements for the A.A. degree may not be used to meet concentration requirements.
1. Culture and Humanity
21 credit hours drawn from at least two of the following subjects:
- English (ENGL), History (HIST), Philosophy (PHIL), Theology (THEO), or Classical Civilization (CLC).
2. Social and Behavioral Science
21 credit hours drawn from at least two of the following subjects:
- Economics (ECON), Political Science (POLS), Psychology (PSY), Sociology (SOC), and approved courses in Geography (GEO 101, 102, 200, 210, 274, 301 and approved 490).
3. Communication and Expressive Arts
21 credit hours from at least two of the following subjects:
- Art (ART), Foreign Languages (FL), Communication (COMM), Music (MUS), the Theatre and Television Arts (TTVA).

C. Electives ............. 0-3 Cr.
0-3 elective credit hours, depending on whether the diversity requirement was fulfilled by another course.

ASSOCIATE IN SCIENCE DEGREE

A. General Education Requirements
1. First Year Core .......... (10 Cr.)
   CORE 110 .................. 5 Cr.
   CORE 115 .................. 5 Cr.
2. Social Analysis .................. 3 Cr.
3. PE 101-105 ................. 1 Cr.

B. Major Field Requirements
At least 30 credit hours in Natural Science and Mathematics. Students preparing for admission to one of the allied health fields should develop an appropriate program of study with the Associate Degree Adviser.

C. Other Requirements
1. The following work must be completed in residence at Valparaiso University:
   a. 30 of the last 34 credit hours for the degree.
   b. At least 15 credit hours in Natural Science and Mathematics.
   c. A foundational level Theology course.
2. The student must earn a cumulative grade point average of 2.00 on all work in residence and on courses in Natural Science and Mathematics taken in residence.

An Associate in Science degree with concurrent cytotechnology certification may also be obtained. See page 50.

BACHELOR OF ARTS DEGREE

A. General Education Requirements
1. First Year Core ........... 10 Cr.
   CORE 110 .................. 5 Cr.
   CORE 115 .................. 5 Cr.
2. Academic Area Studies
   a. Theology .................. 6 Cr.
      1) One foundational level
         Theology course .......... 3 Cr.
      2) One upper level Theology
         course taken in the
         junior or senior year ...... 3 Cr.
b. Literature and Fine Arts  
6 Cr.
1) ENGL 200  
2) One course in Fine Arts or Fine Arts-Literature 3 Cr.
Courses which fulfill this requirement are ART 101, 102, 311, 317, 318, 319, 320, 321; CLC 200, 220, 251; ENGL 231; FLGR 250, 260; FLJ 250; MUS 101, 317, 318, 319; PHIL 210; FLS 250; TVTA 101, 238, 239, 337.

f. Philosophical and Historical Studies  3 Cr.
One course in either philosophy or history. (CLC 311 will also fulfill this requirement.)

h. Studies in Natural and Behavioral Sciences/Mathematics  12 Cr.
Three four-credit courses to be selected as follows:
1) Two laboratory science courses to be selected from one of these options:
   a) Two courses from different departments, from the following:
      ASTR 101 and 101L, BIO 125, BIO 151, BIO 171, CHEM 111, CHEM 121, CHEM 131, GEO 104, MET 103, PHYS 111 and 111L, PHYS 141 (or 151) and 141L, PSY 110 and 111.
      (Note: GEO 104 and MET 103 are in the same department; ASTR 101 and the PHYS courses are in the same department.)
   b) Two courses from the same department, from the following pairs: BIO 151 and 152, BIO 171 and 172, CHEM 121 (or 131) and 122 (or 132), PHYS 111 and 111L and 112 and 112L, PHYS 141 (or 151) and 141L and 142 (or 152) and 142L.
   2) A third course from the list in 1) a, from a different department than either of the first two courses, or a four-credit mathematics or computer science course.
   MATH 110 and 114 will not fulfill this requirement.

i. PE 101-105  1 Cr.

B. Major Field Requirements

Students may fulfill the major field requirements of the Bachelor of Arts degree by completing either a Department Major or an Individualized Major and by meeting one of the completion requirements listed below, or by completing an Interdisciplinary Program (see page 46).

Departmental Major. In order to fulfill requirements under the Departmental Major, students must complete a minimum academic major. Departments in the College of Arts and Sciences offer the following major fields for the Bachelor of Arts degree: Art, Biology, Chemistry, Classics, Communication, Computer Science, Economics, Economics and Computer Analysis, English, French, Geography, German, History, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Spanish, Theatre and Television Arts, and Theology.

Individualized Major. An approved individualized major of thirty credit hours may be presented instead of the departmental majors listed above. This major is intended for students with clearly defined academic or career objectives who feel that their specific needs are not met by the departmental major option or by the interdisciplinary program option described below. A student in the College of Arts and Sciences may propose a plan for an individualized major, using the form available in the Dean's office. The major must satisfy the following conditions:
1. The proposed major must include at least 30 credit hours but not more than 48 credit hours chosen from two or more departments.
2. None of the courses chosen may be courses used to meet the General Education Requirements.
3. The proposed major must be supported and supervised by a faculty adviser.

4. A comprehensive statement by the student justifying the major must accompany the Individualized Major form. This form must list the specific courses to be taken, and will be signed by the student and the faculty supervisor before it is presented to the Dean's office for approval. Any revisions must also be approved by the Dean of the College.

5. The proposed major must be submitted to the Dean of the College of Arts and Sciences for approval, preferably by the beginning of the junior year, but no later than the deadline for filing for degree candidacy.

The selection of courses for the individualized major may reflect serious deliberation on the part of the student and adviser. Normally, the individualized major will not include lower division courses or courses of an introductory nature.

The individualized major may be freely substituted for a departmental major in any of the various combinations available to students in meeting major requirements for the Bachelor of Arts degree. Courses taken for this major may not be counted for credit toward a minor or a second major.

Completion of Major Field Requirement

In addition to completing either a departmental or an individualized major, students must complete one of the following:
1. An academic minor. The faculty recommends that minors be selected that are correlated to the major.
2. No course may be used to fulfill two majors or both a major and a minor requirement except with the permission of the Dean of the College.
3. An approved individualized minor of 15 credit hours may be presented in lieu of the departmental minor. At least 9 credit hours must be taken beyond the introductory level. None of the courses chosen may be courses used to meet the General Education Requirements. Forms for individualized minors are available in the Dean's Office. A student may not graduate with both a minimum individualized major and an individualized minor as the method of fulfilling major area graduation requirements.
3. A second academic major. In addition to the first major areas listed above, Physical Education may also be selected. An approved individualized major may also be presented in fulfillment of requirements of a second major.

4. A complementary major. A major which enhances and expands a first major. This major may not be a first major.

5. A first major with at least forty credit hours. However, no more than forty-eight credit hours from one department may be applied toward the 124 required for graduation. This limitation does not apply to students pursuing an English major and an English Writing minor, students pursuing a double major in Geography and Meteorology or pursuing a Meteorology major and a Geography minor in the Department of Geography and Meteorology, students pursuing double majors in the Department of Foreign Languages and Literatures, students pursuing double majors in Mathematics and Computer Science in the Department of Mathematics and Computer Science, the Bachelor of Music or Bachelor of Music Education degrees, or students pursuing a Bachelor of Fine Arts degree.

6. An interdisciplinary minor, see listing below.

Interdisciplinary Programs
The College of Arts and Sciences offers nine Interdisciplinary Programs of study which students may pursue instead of the major options outlined above. Thirteen programs are coordinated by special administrative committees composed of faculty members drawn together by their interest in a particular subject not defined by boundaries of the traditional academic disciplines. Interdisciplinary Programs are currently offered in American Studies, Broadcast Meteorology, Chinese and Japanese Studies, Environmental Science, International Economics and Cultural Affairs, International Service, and complementary majors in Modern European Studies and Pre-Seminary Studies. A departmental second major, a complementary major, or departmental minor may be added to the Interdisciplinary Programs with approval of the Dean’s office. In addition, minors in Interdisciplinary Programs in American Studies, Applied Statistics, Bioethics, Business Administration, Chinese and Japanese Studies, Environmental Studies, Ethnic Studies, Film Studies, Gender Studies, Human Aging, Liberal Arts Business, and Political Communication may be added to departmental majors.

BACHELOR OF MUSIC DEGREE (128-136 CR.)
To be eligible for the Bachelor of Music degree, students must complete the required curriculum for the program area. In addition, they must pass all performance tests set for them by the Department of Music. They must earn 136 credit hours for the Church Music program or 128 credit hours for the Composition or Performance program. They must maintain a grade point average of 2.00. Two options are offered the student in the church music program: organ and voice. Each student is expected, however, to acquire sufficient skill in organ performance and choral directing to assume a position as a qualified parish musician.

A. General Education Requirements
For details see the Bachelor of Arts degree.
1. First Year Core 10 Cr.
2. Academic Area Studies
   a. Theology: one foundational and one upper level course 6 Cr.
   b. ENGL 200 3 Cr.
   c. Foreign Language 8 Cr.
   d. Global Cultures and Perspectives 3 Cr.
   e. U.S. Cultural Diversity 3 Cr.
   f. Philosophical and Historical Studies 3 Cr.
   g. Studies in Social Analysis 6 Cr.
   h. Studies in Natural and Behavioral Sciences/Mathematics 4 Cr.
   i. PE 101-101 1 Cr.

B. Music Requirements
The requirements for the major fields are given on page 137.

BACHELOR OF SCIENCE DEGREE (124 CR.)
A. General Education Requirements
For details see Bachelor of Arts degree.
1. First Year Core 10 Cr.
2. Academic Area Studies
   a. Theology: one foundational and one upper level course 6 Cr.
   b. ENGL 200 3 Cr.
   c. Global Cultures and Perspectives 3 Cr.
   d. U.S. Cultural Diversity 3 Cr.
   e. Studies in Social Analysis 6 Cr.
   f. Studies in Natural and Behavioral Sciences/Mathematics 12 Cr.
Twelve credit hours, including at least eight credits with two laboratories, are to be selected from one of these options:
1) one course (four credits) from each of three different departments (biology, chemistry, and the departments of geography/meteorology, mathematics/computer science, physics/astronomy and psychology); or
2) two courses (eight credits) from one department (BIOL 151 and 152, BSO 171 and 172, CHEM 121 and 122, CHEM 131 and 132, PHYS 111/111L and 112/112L, or PHYS 141/141L and 142/142L) plus four credits from a different department (see point 1 for list of departments).

Students pursuing the Bachelor of Science degree must take a calculus course or MATH 124 (or equivalent) or CS 115 (or equivalent).

3. Academic Area Studies Option
Select two of the following:
   a. Fine Arts or Fine Arts-Literature 3 Cr.
   b. Foreign Language, one course above 101 3-4 Cr.
   c. One course in Philosophy or History 3 Cr.

B. Major Field Requirements
A student must complete one science major of at least 32 credit hours (biology, chemistry, computer science, geology, mathematics, meteorology, physics, psychology) and:
   1. A science minor, or
   2. A non-science major, or
   3. The Liberal Arts Business Minor (see page 229 for details), or
   4. The Business Administration Minor (see page 226), or
   5. An Education Minor, or
   6. An Applied Statistics Minor (see page 225), OR
   7. Two minimum science majors (biology, chemistry, computer science, geology, mathematics, meteorology, physics, psychology), OR
   8. Complete at least 40 credit hours in the first major.
No more than 48 credit hours from a major department may be applied toward the 124 credit hours required for graduation.

The geology major is offered as a special program in the Department of Geography.

The departmental major or the individualized major may be chosen provided that the major is at least 32 credit hours but not more than 48 credit hours; that courses for an individualized major are chosen from the sciences listed on page 47, and that other restrictions on majors are followed.

**BACHELOR OF SCIENCE IN EDUCATION DEGREE (124 CR.)**

Completion of a special curriculum with a major in either elementary education or middle level education leads to the degree of Bachelor of Science in Education. This degree is intended for students who plan to become teachers in either elementary schools, middle schools, or junior high schools. The requirements for this degree are given in the Department of Education on pages 83-85.

**BACHELOR OF SCIENCE IN FINE ARTS DEGREE (124 CR.)**

A. **General Education Requirements**

For details see the Bachelor of Arts degree.

1. First Year Core ........................................ 10 Cr.
2. Academic Area Studies................................. 10 Cr.
   a. Theology: one foundational and one upper level course 3 Cr.
   b. ENGL 200 ........................................ 3 Cr.
   c. Global Cultures and Perspectives 3 Cr.
   d. U.S. Cultural Diversity 3 Cr.
   e. Studies in Social Analysis 6 Cr.
   f. Studies in Natural and Behavioral Sciences/Mathematics 12 Cr.
   g. BIO 151, 152 and CHEM 111 12 Cr.
   h. Sports management majors fulfill the natural science requirement for the Bachelor of Science degree, see page 47
   i. PE 101-105 ........................................ 1 Cr.
3. Academic Area Studies Option
   a. Select two of the following:
      i. Fine Arts or Fine Arts-Literature 3 Cr.
      ii. Foreign Language, one course above 101 3-4 Cr.
      iii. One course in Philosophy or History 3 Cr.

B. **Major Field Requirements**

1. The student must complete a major in art consisting of at least 54 credit hours, including ART 101, 102, 121, 122, 132, 162, 221, 231, 251, one from (311, 317, 318, 319, 320, or 321) and 493. A concentration must be chosen in painting, sculpture, ceramics, photography, graphic design or art history.
2. The student must receive approval by the Department of Art of a portfolio presentation by the beginning of the junior year to be eligible for this degree.

C. **Other Requirements**

The student must earn at least 62 credit hours in non-art courses, which may be comprised of the General Education Requirements and electives.

**BACHELOR OF SCIENCE IN PHYSICAL EDUCATION DEGREE (124 CR.)**

A. **General Education Requirements**

For details see Bachelor of Arts degree.

1. First Year Core ........................................ 10 Cr.
2. Academic Area Studies................................. 10 Cr.
   a. Theology: one foundational and one upper level course 6 Cr.
   b. ENGL 200 ........................................ 3 Cr.
   c. Global Cultures and Perspectives 3 Cr.
   d. U.S. Cultural Diversity 3 Cr.
   e. Studies in Social Analysis 6 Cr.
   f. Studies in Natural and Behavioral Sciences/Mathematics 12 Cr.
   g. BIO 151, 152 and CHEM 111 12 Cr.
   h. Sports management majors fulfill the natural science requirement for the Bachelor of Science degree, see page 47
   i. PE 101-106 ........................................ 1 Cr.
3. Academic Area Studies Option
   a. Select two of the following:
      i. Fine Arts or Fine Arts-Literature 3 Cr.
      ii. Foreign Language, one course above 101 3-4 Cr.
      iii. One course in Philosophy or History 3 Cr.

B. **Major Field Requirements**

The first major, if the student has a double major, must be physical education. See page 145 for specific major requirements.

**BACHELOR OF SOCIAL WORK DEGREE (124 CR.)**

A. **General Education Requirements**

General education requirements for the Bachelor of Social Work degree are the same as those for the Bachelor of Arts degree, pages 43-44.

B. **Major Field Requirements**

The first major, if the student has a double major, must be social work. See page 166 for specific major requirements.

**Special Academic Regulations for the College of Arts and Sciences**

**REGULATIONS CONCERNING GENERAL EDUCATION REQUIREMENTS**

1. A course may not be used to meet more than one General Education Requirement, with the exception of the required courses in diversity (Global Cultures and Perspectives or U.S. Cultural Diversity). Appropriately designated diversity courses may be applied simultaneously toward fulfillment of certain area requirements.
2. Only courses of at least three credits may be used in meeting General Education Requirements, excluding the requirement in Physical Education.
3. Courses taken to fulfill major requirements may be presented in fulfillment of General Education Requirements where applicable.

**RESTRICTIONS ON THE USE OF CREDIT HOURS FOR DEGREES IN THE COLLEGE OF ARTS AND SCIENCES**

1. A student may apply no more than four credit hours in Physical Education 101-149 toward a degree in the College of Arts and Sciences.

2. At most, four credit hours from the Computer Science courses numbered 128, 225, 226, and 290 may be applied toward a degree.

3. Non-music majors are limited to 16 credit hours of applied music, of which no more than 4 credit hours may be in ensemble music. For further clarification see page 140.

**No more than 48 credit hours in any one department may be applied toward the total of 124 credit hours required for graduation. This limitation does not apply to students pursuing:**

1. double majors in Mathematics and in Computer Science in the Department of Mathematics and Computer Science,
2. double majors in Geography and in Meteorology in the Department of Geography and Meteorology,
3. a Meteorology major and a Geography minor, 4 double majors in the Department of Foreign Languages and Literatures or a Classics major,
4. a major in English and a minor in Writing,
5. the Bachelor of Music degree, 7) the Bachelor of Music Education degree, 8) or the Bachelor of Science in Fine Arts degree.

5. A student may apply no more than 15 hours collectively from the professional colleges of the University toward a degree in the College of Arts and Sciences, subject to the following exceptions:

a. Students completing the Liberal Arts Business Minor may apply 18 credit hours in business administration courses only if Accounting 206 is selected to complete the requirement.

b. Students completing the Business Administration Minor may apply 21 credit hours in business administration.

c. Students completing the Actuarial Science Major may apply 19 credit hours in business administration, and may apply 20 credit hours in business administration only if IDS 110 is selected to complete the requirement.

**Note:** A student who transfers from one of the professional colleges into the College of Arts and Sciences may apply credits within the restrictions listed above. For further clarification, consult the Dean of the College.

**Professional and Pre-Professional Areas**

The College of Arts and Sciences offers degrees especially designed for teaching in elementary schools, teaching of music, performance of music, creation of art works,
work in physical education and social work. The appropriate degrees are described earlier, pages 43-49. In addition, students can prepare for teaching in secondary schools under a variety of majors for Bachelor of Arts and Bachelor of Science degrees. The Deaconess Program, the prelegal program and the premedical arts programs are professional preparatory programs a student may complete while pursuing a liberal arts major. Students interested in any of these programs should declare the program before entering the sophomore year.

Those pursuing an Associate in Science degree may elect the cytotechnology certification option. This program requires the student to complete a one year program in an accredited school of cytotechnology and a one year prescribed course of study at Valparaiso University. The credits from the cytotechnology program (usually 30) will transfer to Valparaiso University to meet about half of the requirements for the A.S. degree. See page 43 for the degree requirements for the Associate in Science degree. Students should contact a premedical arts advisor for specific science courses that must be completed.

**TEACHER EDUCATION PROGRAMS**
The Teacher Education Program is under the direction of the Department of Education. Eligibility for admission to the program is determined by the department.

The State of Indiana has implemented a new licensure program beginning with students who enter college during the 2001-2002 academic year. Students who entered college prior to Fall 2001 are considered under the old licensure structure and should refer to previous University catalogs.

The University currently prepares applicants for licensure in the following licensure categories listed under types of school and developmental settings.

**(Elementary Grades 1-5) GENERALIST: Early and Middle Childhood - Intermediate**

Additional content areas in:
- Special Education - Mild Needs (Learning Disabilities, Mildly Mentally Handicapped, and Emotional/Behavioral Disorders)

Any subject content area listed under grades 9-12 (high school)

**PREPARATION FOR THE MEDICAL ARTS**

Students can prepare for entrance into medical, dental, veterinary, medical technology, physical therapy, or premedical schools by entering one of the premedical arts programs of the College. Students in these programs must have their schedules approved at the beginning of each semester by a major advisor and an assigned premedical arts academic adviser. Advising in the premedical arts is handled by premedical advisers, who are members of the Committee on Pre-Medical Arts. All recommendations to the professional schools are sent out by this Committee: Professors Cook (Chemistry), Associate Professors Hicks (Biology), and Goyne (Chemistry).

Premedical and pre-dental students are invited to join the Pre-Medical Society, a student organization which promotes interest in medicine and dentistry through a program of guest lectures and social events. Those with outstanding academic records may be invited to join Alpha Epsilon Delta, a national medical honorary society. In some fields such as medicine, dentistry and veterinary medicine, completion of a Bachelor of Arts or Bachelor of Science degree is often required before admission to a professional school. However, if three years or less of college work are needed for entrance into a professional program, a student may earn a bachelor's degree through the University's Combined Liberal Arts-Medical Arts program. This involves three years of work at Valparaiso University and one year of work at an approved professional school. Details are in the next section of this catalog. This program is often used by students in medical technology. Students who want to enter **allied health fields** which require two years or less of college preparation may want to earn the Associate in Science Degree described on page 43. Further information about allied health fields may be obtained from the office of the Allied Health Adviser.

Under the course, GS 395 (see pages 55-56), two topics are offered in the Summer Session (see page 238) that are of interest to students in premedical arts: Medical Apprenticeship and Dental Apprenticeship. Details are given in a Summer Session announcement each year.

**COMBINED LIBERAL ARTS-MEDICAL ARTS PROGRAM**

Students may complete the degree Bachelor of Arts or Bachelor of Science from Valparaiso University by completing three years of study at this University and completing an additional year’s work at an approved school of medicine, dentistry, veterinary medicine, medical technology or other allied health disciplines. Prior approval of the program must be secured from the Committee on Pre-Medical Arts.

Specifically, students who elect one of these programs must meet the following requirements:

1. They must spend the junior year in residence at Valparaiso University.
2. They must meet all General Education Requirements for the Bachelor of Arts or Bachelor of Science degree with the exception that one course in theology is waived.
3. They must complete an academic major. For the Bachelor of Science degree this major must be in one of the science fields.
4. They must offer at least 93 semester credit hours of college work.
5. They must apply for graduation by the deadline date as noted at the front of this catalog and present to the Office of the Registrar an official transcript of an additional year’s satisfactory work at an approved professional school.

**PREPARATION FOR THE STUDY OF LAW**

According to the consensus of legal educators, a specified major is not a prerequisite to the study of law. Significant qualities of undergraduate preparation derive from the intellectual discipline required by exacting teachers rather than the subject matter of what is taught. Prelaw students should select an academic major and consult with their academic adviser and a prelaw adviser to select courses in the student's areas of interest which will place demands on analytic skills and both verbal and written expression. Students in this program may express common interests through the Pre-Law Society.

**COMBINED LIBERAL ARTS-LAW PROGRAM**

Students may complete their bachelor's degree from Valparaiso University by completing three years of study at this University and completing an additional year's work at the Valparaiso University College of Arts and Sciences.
College of Arts and Sciences

School of Law. Thereby students may obtain in six years (twelve semesters) both the Bachelor's degree and the Juris Doctor degree. Prior approval of the program must be secured from the Office of the Dean of the College of Arts and Sciences.

Students who elect this program must meet the following requirements before beginning the School of Law:

1. They must satisfactorily complete all General Education Requirements for the Bachelor's degree and an academic major.
2. They must satisfactorily complete at least 94 undergraduate credit hours.
3. At least one half of the credit hours for the major must be taken at Valparaiso University.
4. At least 75 credit hours, including the last 30 credit hours, must be taken at Valparaiso University.
5. They must have a grade point average of 3.0 in all undergraduate work at Valparaiso University.
6. They must be admitted to the Valparaiso University School of Law through the normal admissions process.
7. They must complete a minimum of 30 credits in the Valparaiso University School of Law with a grade point average of at least 2.0.
8. They must apply for the Bachelor's degree graduation by the deadline date as noted at the front of this catalog.

PREPARATION FOR SEMINARY

Students may prepare themselves for seminary entrance by enrolling in the pre-seminary program of Valparaiso University. This program meets all the standards of the Association of Theological Schools for undergraduate education. Students preparing for seminary should, with their first major, take the complementary major in Pre-Seminary Studies; see page 160. Upon graduation from this program, students are usually accepted into the seminaries not only of the Lutheran Church Missouri Synod and the Evangelical Lutheran Church in America, but also of other Protestant bodies, and in graduate divinity schools throughout the United States.

A student who is interested in preparing for seminary entrance is helped by an adviser to select appropriate undergraduate courses. These include studies in the arts and humanities, in theology, in the biblical languages and in areas of the student's own special interest.

Further information on this program is available from the Chair of the Department of Theology.

ARTS AND SCIENCES

PRE-ENGINEERING PROGRAM

Applicants for admission to the College of Engineering may require additional work, usually in mathematics or sciences, before admission is granted. Such students may be admitted to the College of Arts and Sciences for this preparation. Students should consult the Dean of the College of Engineering for details.

ARTS AND SCIENCES

PRE-NURSING PROGRAM

In some cases students applying for admission to the College of Nursing may require additional preparatory work, usually in the biological and social sciences, before admission is granted. A limited number of such students, as well as late applicants, are admitted to the College of Arts and Sciences. These students are helped by the College of Nursing to develop a course of study which will prepare them for admission to the College of Nursing. Students who successfully complete this course of study, including all the liberal arts pre-nursing requirements given on page 220, with a standing of 2.00 or better may then apply to the Dean of the College of Nursing for admission to that College.

PROGRAM OF STUDIES IN DEACONESS MINISTRY

The University and the Lutheran Deaconess Association cooperate in the education of women for service in Deaconess Ministry.

A deaconess student may choose one of the following education plans:

PLAN 1. Students complete the requirements for the Bachelor of Arts degree with a major in Theology, minor in a related field. Attendance at Valparaiso University during the junior and senior years is required. Practical courses are Fieldwork (two semesters) and Clinical Deaconess Education. A year of internship is required between the junior and senior years. This is a year of supervised learning through work in a church-related setting, enabling the student to develop knowledge and skills for Deaconess Ministry.

PLAN 2. Students complete the requirements for a major at Valparaiso University in nursing, social work, education, or music. In addition they take at least a minor in Theology. Practical requirements are met in connection with the practicum for the major. A year of internship is an option. Otherwise, one year of association with graduate deaconesses is required after graduation before certification for consecration.

PLAN 3. A person who already has a bachelor's degree from an accredited college or university attends Valparaiso University for two semesters plus a summer session. The student takes a full complement of theology courses, including Fieldwork (one semester) and Clinical Deaconess Education. The student does one year of internship following completion of the academic work at Valparaiso University.

Pi Delta Chi is a professional society of deaconess students. This organization helps students in the understanding of the deaconate and the varieties of ministries in which they can serve God and people.

Deaconess students participate in various formation, worship and social activities. The residence requirement for PLAN 1 students is two years. Students under PLAN 2 or PLAN 3 should discuss the residency requirement with the staff of the Lutheran Deaconess Association.

The education program is under the counsel and guidance of the staff of the Lutheran Deaconess Association. Inquiries should be directed to the Director of Student Services, Center for Diaconal Ministry, 1304 LaPorte Avenue, Valparaiso, Indiana 46383-9978.

COMBINED LIBERAL ARTS-ENGINEERING PROGRAM

Students may earn in five years (ten semesters) both the Bachelor of Arts degree and the Bachelor of Science in Engineering degrees. They may earn the two degrees by completing one of the engineering curricula and the General Education Requirements of the Bachelor of Arts degree as well as the major requirement of the College of Arts and Sciences. This requires them to earn 162 credit hours and to have a standing of at least 2.00 in all of their work. Students who elect such a program must have their schedules approved by both the Dean of the College of Arts and Sciences and the Dean of the College of Engineering at the beginning of each semester. Sample or representative curricula for such programs may be obtained upon application to the Dean of the College of Engineering.

Departmental Honors Work

Honors work is designated for students of exceptional ability who may benefit by earning a limited number of the credits required for graduation through supervised independent study rather than through regular course work. Students who apply for Honors Work should understand that their work will be evaluated according to the highest standards of scholarly achievement.

Honors Work may be pursued by any student who is a degree candidate in the College of Arts and Sciences and whose major or program is administered by a department or an administrative committee within the College.

A student who has completed at least 80 credit hours, but has not yet entered upon the work of the last two semesters, and who has a cumulative grade point average of at least 3.0 and a grade point average in the major of at least 3.50 may apply through the major department or program committee for admission to Honors Work. To apply, the student must submit a plan for a major independent project which will be undertaken under the supervision of a member of the major department or program. The application form, which requires the student to articulate the independent project briefly, clearly, and with a timetable and modest bibliography, is available in the dean's office. (For more information, please attend the Lumina Futures program held annually during the spring semester.) This plan must be presented to the chair of the student's department or program for approval and forwarded to the dean's office no later than 12:00 P.M. on the third Monday of April of the student's second semester, junior year. The dean will then forward the application to the Scholarship and Advising Committee for final approval. If the proposed independent study project is approved, the student shall be enrolled by the Dean's Office in the first
Cooperative Education

Cooperative Education in the College of Arts and Sciences is a program in which students combine professional, paid work experience with academic programs.

Students may be employed in full-time (called alternating) or part-time (called parallel) placements. Normally, a semester of full-time employment will earn a maximum of 3 credit hours; a full-time summer employment, a maximum of 2 credit hours; and a part-time (parallel) placement requiring a minimum of fifteen hours per week, 1 credit hour. Parallel placements of fewer than fifteen hours per week may be given 0.5 credit hours.

Students will normally complete a minimum of two alternating or four parallel work assignments. The program is available through various departments as well as through the general offerings of the College. The College’s general program is intended both for undeclared majors who are able to use cooperative education on an exploratory basis and for declared majors who may wish to participate outside their major department on an elective basis.

The following policies govern Cooperative Education within the College:
1. The student works under the advisement of a faculty member who monitors the work experience, evaluates the required written reports by students, and assigns the course grade.
2. A student is eligible upon completion of two semesters of enrollment in residence with a minimum cumulative grade point average of 2.50. Co-op is open to students upon completion of the freshman year.
3. Placements require prior approval of the Coordinator of Cooperative Education—retroactive credit will not be granted.
4. Course credits count as electives toward graduation or, in certain academic departments where specified, count toward the department’s major or minor.
5. No more than a combined total of 12 credit hours earned through cooperative education, internship, field experience, or other work experiences may be applied toward the meeting of minimum graduation requirements.

Exceptions may occur in certain departments due to professional certification requirements. Additional restrictions may apply in departments where the cooperative education credits count toward major or minor requirements.

General Courses Offered by the College of Arts and Sciences

First Year Core (Cr. 10, CORE 110 and CORE 115) A writing-intensive interdisciplinary course that initiates first-year students into the VU academic community by exploring significant themes in human experience, engaging students with resources from the areas of history, theology, philosophy, literature and the arts. It is a core experience extending for two semesters, 5 credits each semester, in seminar sections of about 20 students. It is taught by a trained core faculty from areas across the University, the faculty meeting regularly to promote extensive collaborative activity for both faculty and students.

GS 100. VU Strategies.
Cr. 0. A course to assist first-year students in developing skills necessary for college success, including study skills, learning styles, time management and test-taking strategies. Administrative Assistant Luci Hicks’ signature required.

GS 200. Study Circle on Race Relations.
Cr. 1. This course will offer 8-15 students the opportunity to engage in a series of participatory, democratic discussions about race relations on campus and in society. The instructor(s) for the course will serve as facilitator(s), establishing ground rules and focused discussion in which participants can exchange ideas freely and consider a variety of views. By uncovering shared concerns and coming up with practical strategies to improve race relations participants may find they can work collaboratively to improve the campus and community. Readings will be drawn from Facing the Challenge of Racism and Race Relations, a guide produced by the Study Circles Resource Center.

GS 390. Topics in English Life and Culture.
Cr. 3. A study of selected aspects of English life and culture. Topics might include, but are not restricted to politics, education, religion, business, environment, and multi-cultural issues. Cambridge Center only.

GS 390. Topics in German Life and Culture.
Cr. 3. A study of selected aspects of German life and culture. Topics might include, but are not restricted to politics, education, religion, business, environment, and multi-cultural issues. Reutlingen Center only.

CPED 381. Cooperative Education I.
Cr. 0.5-3. This course is a prearranged, approved professional work experience with a cooperating employer. A written report is required of each student. The prerequisites are one year in residence, a minimum cumulative grade point average of 2.50, and the approval of the Coordinator of Cooperative Education.

CPED 382-383. Cooperative Education II-III.
Cr. 0.5-3. The prerequisites for additional cooperative education experiences are the same as for Cooperative Education 381, plus positive work performance evaluations by the previous cooperative employer(s). This course may be repeated beyond 383 for additional credit, subject to the guidelines of the College, as stated on page 54.

GS 395. Independent Study Project.
Cr. 1-4. An independent project is conducted on a topic selected by a group or individual. Grading is limited to the use of S or U. Prerequisites: Approval of a faculty sponsor and the Dean of the College of
All sophomores, juniors and seniors at the University are eligible to participate in this program. Students shall be admitted to this program on the recommendation of the Urban Studies Advisory Committee.

Valparaiso University students register at Valparaiso for the Chicago Urban Semester and pay to Valparaiso University the general fee charged of all full-time students. Expenses for travel, meals and lodging are paid directly by the students. Full credit toward graduation is given for all courses taken in the Urban Studies program. The program is offered in both the fall and the spring semesters.

See pages 232-233 for course descriptions and the Urban Studies Minor requirements.

Actuarial Science

Administrative Committee:
Professor Ozgur (Information and Decision Sciences); Associate Professors Hull (Mathematics and Computer Science), Pearson (Mathematics and Computer Science, Chair), Pirie (Finance), Shingleton (Economics).

Students who complete the Actuarial Science major will have fulfilled the major field requirements for the Bachelor of Science degree.

Objectives. Actuarial science can be described as the study of the current financial implications of future contingent events. Actuaries, employed by insurance companies, consulting firms or government agencies, must have excellent quantitative reasoning skills in addition to an understanding of modern business and finance. The Actuarial Science program provides a background in the areas of mathematics, finance, statistics, and economics. Students interested in pursuing the Actuarial Science major should confer with a member of the Administrative Committee.

Requirements. A minimum of 68 credit hours approved by the Administrative Committee is required. Specific required courses are listed below. Students completing the Actuarial Science program may apply 19-20 credit hours in business administration courses toward the Bachelor of Science degree. Introductory courses fulfill 4 of the 12 credits required for the Natural and Behavioral Sciences/Mathematics General Education Requirement and 3 or the 6 credits required for the Social Analysis General Education Requirement. The Business Administration Minor and the Applied Statistics Minor are not available to Actuarial Science majors.

**REQUtRED COURSES**

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<tr>
<th>Introductory Courses</th>
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<td>ACC 205 Financial Accounting</td>
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<td>ACC 206 Managerial Accounting</td>
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<tr>
<td>ECON 221 Principles of Economics-Micro</td>
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<tr>
<td>ECON 222 Principles of Economics-Macro</td>
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<td>MATH 131 or 181 Calculus I</td>
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<td>MATH 132 or 182 Calculus II</td>
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<tr>
<td>MATH 253 Calculus III</td>
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<tr>
<td>MATH 264 Linear Algebra</td>
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<td>IDS 111 Business Applications Programming</td>
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American Studies

**Administrative Committee:**
Professors Albers (Theology), Feaster (English), Janke (Geography and Meteorology), Sponberg (English); Associate Professors Kilpinen (Geography and Meteorology), Morgan (Christian College), Ruff (English); Assistant Professor Bond (English, Chair).

Students completing the Program in American Studies will have fulfilled major field requirements for the Bachelor of Arts degree under the Interdisciplinary Program Option.

**Objectives.** The Program in American Studies offers the undergraduate student an opportunity to study the whole civilization of the United States—its fundamental ideas, institutions and symbolic expressions as these have developed over time. This common subject matter is examined through a variety of methods and materials that reach across traditional disciplines. The student must, therefore, become familiar with the approaches of the social sciences, the fine arts, and the humanities as these bear on the subject of American civilization. By drawing together these different perspectives, American Studies enables students to attain a broad vision of the civilization, while deepening their understanding of what is both unique and universal about the United States.

**Resources.** Valparaiso University has special resources for the student in American Studies. Among these are the Library of American Civilization, containing more than 15,000 volumes of American material on microfilm; the Sloan Art Gallery, and the Washington Semester Program (page 12), which allows students to spend a semester in Washington, D.C., and intern at such institutions as the National Archives and the Smithsonian.

**Program Requirements.** A minimum of 48 credit hours in courses approved by the Administrative Committee. Courses must include the 24 credit hours designated in the Program Core and an additional 24 credit hours selected from the list of approved elective courses. The student and the Chair of the Committee, who is adviser for all students in the Program, may select courses that fulfill individual academic or career objectives. Courses not included in the list of approved electives may be substituted in some instances if they are approved by the Chair of the Committee. Students are encouraged to undertake independent study projects.

Honors Work may be undertaken in American Studies with appropriate approval. Students should register for AMST 497: Honors Work in American Studies, and AMST 498: Honors Candidacy in American Studies (see page 53).

**Area Minor in American Studies.** A student fulfilling major field requirements under a Major Option may present an area minor in American Studies for the required minor. Requirements for the minor are a minimum of 24 credit hours approved by the Committee on American Studies. Courses must include at least 12 credit hours selected from the Program Core. The remaining credit hours are selected from the list of approved elective courses.

**Program Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 320</td>
<td>American Painting or Art 321 American Art and Architecture</td>
<td>3 Cr.</td>
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<tr>
<td>ENGL 401</td>
<td>American Literature I</td>
<td>3 Cr.</td>
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<tr>
<td>ENGL 402</td>
<td>American Literature II</td>
<td>3 Cr.</td>
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<tr>
<td>HIST 220</td>
<td>The American Experience to 1877</td>
<td>3 Cr.</td>
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<td>HIST 221</td>
<td>The American Experience in the Modern World</td>
<td>3 Cr.</td>
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<tr>
<td>POLS 120</td>
<td>Government of the U.S.</td>
<td>3 Cr.</td>
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<td>THEO 324</td>
<td>Christianity in America</td>
<td>3 Cr.</td>
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<tr>
<td>AMST 495</td>
<td>Independent Study</td>
<td>3 Cr.</td>
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</table>

**Elective Courses**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 311</td>
<td>Modern Art since 1945</td>
<td>3 Cr.</td>
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<tr>
<td>CC 300</td>
<td>Seminar-Modernt American Social Thought</td>
<td>3 Cr.</td>
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<td>CC 300</td>
<td>Seminar-Dorothy Day and James Agee</td>
<td>3 Cr.</td>
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<tr>
<td>ECON 233</td>
<td>The Economics of Race and Gender</td>
<td>3 Cr.</td>
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<tr>
<td>ECON 380</td>
<td>Economic History of the U.S.</td>
<td>3 Cr.</td>
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<td>ENGL 365</td>
<td>Studies in American Literature</td>
<td>3 Cr.</td>
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<td>ENGL 390</td>
<td>Topics in Literature</td>
<td>3 Cr.</td>
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<td>HIST 225</td>
<td>Racial Minorities and Mainstream America</td>
<td>3 Cr.</td>
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<td>HIST 321</td>
<td>The American Revolution</td>
<td>3 Cr.</td>
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<td>HIST 322</td>
<td>Slavery, Abolitionism and Sectionalism, 1815-1860</td>
<td>3 Cr.</td>
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<td>HIST 323</td>
<td>Civil War and Reconstruction</td>
<td>3 Cr.</td>
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<td>HIST 324</td>
<td>Depression and War: The United States, 1929-1945</td>
<td>3 Cr.</td>
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<td>HIST 325</td>
<td>The Age of Anxiety: United States Since 1945</td>
<td>3 Cr.</td>
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<tr>
<td>HIST 390</td>
<td>Topics in History</td>
<td>3 Cr.</td>
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<td>HIST 394</td>
<td>Beats and Hippies</td>
<td>3 Cr.</td>
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<tr>
<td>HIST 493</td>
<td>Research Seminar</td>
<td>3 Cr.</td>
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<td>PHIL 290</td>
<td>Philosophical Topics: American Philosophy</td>
<td>3 Cr.</td>
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<td>POLS 220</td>
<td>State and Local Politics</td>
<td>3 Cr.</td>
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<td>POLS 237</td>
<td>Congress</td>
<td>3 Cr.</td>
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<tr>
<td>POLS 340</td>
<td>Constitutional Law I</td>
<td>3 Cr.</td>
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<tr>
<td>POLS 341</td>
<td>Constitutional Law II</td>
<td>3 Cr.</td>
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<tr>
<td>POLS 355</td>
<td>Problems in Political Philosophy: American Democratic Thought</td>
<td>3 Cr.</td>
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<tr>
<td>SOCW 330</td>
<td>Vulnerable Populations</td>
<td>3 Cr.</td>
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<tr>
<td>SOC 325</td>
<td>Urban Sociology</td>
<td>3 Cr.</td>
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<td>SOC 347</td>
<td>Race and Ethnic Relations</td>
<td>3 Cr.</td>
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<tr>
<td>SOC 390</td>
<td>Issues in Sociology: American Studies</td>
<td>3 Cr.</td>
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<tr>
<td>THEO 337</td>
<td>American Theatre</td>
<td>3 Cr.</td>
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<td>THEO 320</td>
<td>Topics in Christian History of Luthers in America</td>
<td>3 Cr.</td>
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<tr>
<td>THEO 388</td>
<td>Native American Religions</td>
<td>3 Cr.</td>
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</table>

**AMST 495. Independent Study.**

Cr. 3. An independently supervised course of study taken under the direction of a member of the Administrative Committee. American Studies usually during the student's senior year. Students are expected to produce a major paper that reflects intensive reading and research in an area pertaining to American culture and to employ the interdisciplinary methods and characteristics of American Studies as a field. Before registering for this course students must submit a prospectus to the Administrative Committee for approval. Required for majors.

**AMST 497. Honors Work in American Studies.**

Cr. 3. See Honors Work, page 53.

**AMST 498. Honors Candidacy in American Studies.**

Cr. 3. See Honors Work, page 53.
ART 317/517. Seventeenth and Eighteenth Century European Art.
Cr. 3. A seminar course tracing major themes in Italian, French, Spanish, Netherlands, and British art in the 17th and 18th centuries. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements. Prerequisite: junior standing or approval of the Chair of the Department.

Cr. 3. A seminar course tracing major themes in 19th century European art. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements. Prerequisite: junior standing or approval of the Chair of the Department.

ART 319/519. Early Twentieth Century European Art.
Cr. 3. Seminar course tracing major movements in European art from the turn of the century until World War I. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements. Prerequisite: junior standing or approval of the Chair of the Department.

ART 320/520. American Painting.
Cr. 3. A survey of American painting history from colonial times through the present. Field trip. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements. PREREQUISITE: ART 121.

Cr. 3. A survey of American painting, sculpture and the building arts, beginning with the earliest settlements in Virginia and New England. Several areas of focus will be integrated with field trips to museums and an architectural tour of landmark buildings. Emphasis will be placed on colonial and modern architecture, twelfth century realism and romanticism and the emergence of modernism and abstraction in the twentieth century. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements. PREREQUISITE: ART 121.

STUDIO

ART 121. Drawing.
Cr. 3. A basic course in the fundamentals of drawing and using various media. Field trip.

Cr. 3. A study of more advanced techniques and problems involving the drawing media, to include the human figure. Field trip. PREREQUISITE: ART 121.

ART 132. Introduction to Design.
Cr. 3. A course introducing the basic elements and principles of two-dimensional and three-dimensional design. Field trip.

ART 151. Ceramics.
Cr. 3. Basic ceramic processes including wheel throwing, hand building, tapestry and coiling. Field trip.

ART 152. Ceramics: Advanced Studies.
Cr. 3. Advanced problems in clay construction and glaze formation with opportunities for specialization. Field trip. PREREQUISITE: ART 151.

ART 162. Photography I.
Cr. 3. Introduction to the techniques, history, and aesthetics of color photography. Each student must have a working 35mm camera. Field trip.

ART 221. Painting.
Cr. 3. Problems in painting in oil and other media. Emphasis on color theory and composition. Field trip. PREREQUISITE: ART 121.

ART 222. Painting: Advanced Studies.
Cr. 3. Continuation of ART 121 with increased concentration on students’ individual interests. Field trip. PREREQUISITE: ART 221.

ART 230. Desktop Publishing.
Cr. 3. Also offered as COMM 230. Introduction to computer information display techniques ranging from computer generated illustration, charts and graphs, to newsletter and related page layout procedures. No prior computer experience is required.

ART 231. Graphic Design I.
Cr. 3. Introduction to the principles of graphic design with emphasis placed on typographic solutions. Works are created on Macintosh computers.

Cr. 3. Advanced problems in visual communications with emphasis on design in the commercial environment. Focus is on the printed word. Special emphasis on text and image, design theory, computer-aided designs and techniques for presentation. Field trip.

ART 251. Sculpture.
Cr. 3. Problems in forming sculptural statements in various materials and techniques such as concrete casting, metal welding, wood construction, etc. Field trip. PREREQUISITE: ART 121 and 133 or consent of the instructor.

Cr. 3. Advanced problems in sculpture processes. Field trip. PREREQUISITE: ART 251.
ART 260. 4x5 Photography.
+6, Cr. 3. Introduction to large format photography. Study of camera and darkroom techniques. Camera lease required. Field trip. Prerequisite: ART 162.

ART 285. 3D Design.
+6, Cr. 3. Introduction to the techniques, history, aesthetics, and criticism of color photography. Students work with color negatives, prints, and transparencies. Field trip. Prerequisite: ART 162 or consent of the instructor.

ART 286. Advanced 4x5 Photography.
+6, Cr. 3. Advanced techniques and practices of large format photography. More advanced study of camera and darkroom techniques. Camera lease required. Field trip. Prerequisite: ART 162.

ART 274. Art of Fiber.
+6, Cr. 3. A basic course in fiber manipulation, including loom weaving, tapestry, colling. Field trip.

ART 275. 3D Design.
+6, Cr. 3. Introduction to three-dimensional modeling techniques, computer drawing and basic animation. Prerequisite: ART 231.

ART 342. Elementary School Art- Methods and Materials Workshop.
+6, Cr. 3. A basic course providing the prospective teacher with studio experiences in the selection, organization and use of two- and three-dimensional art and craft materials for the elementary school. This course may not be counted toward a minimum major or minor in art. Field trip.

ART 343. Secondary and Middle School Art- Methods and Materials Workshop.
+6, Cr. 3. A basic course providing the prospective teacher with studio experiences in the selection, organization and use of two- and three-dimensional art materials for the middle, junior and senior high schools. This course may not be counted toward a minimum major or minor in art. Field trip.

ART 489. The Teaching of Visual Arts.
Cr. 3. (See ED 489.) A study of the methods of teaching art in the secondary schools. This course may not be counted toward a major or minor in art. A field component is required. Field trip. Prerequisite: admission to Teacher Education.

SPECIAL STUDIES

ART 386. Internship.
Cr. 1-3. Internships in which students work with professional art-related organizations in such areas as photography, graphic design, or with an art museum. Prerequisite: consent of department chair. Grade is S/U only.

ART 390/590. Special Studies.
Cr. 1-4. (Graduate Cr. 1-3). Specialized work in the practice of art, the teaching of art and the history of art, arranged by a professor and one or more advanced students. Work in crafts, liturgical design, etc. may be included. A SAU grade option may be stipulated at the beginning of the course. May be repeated for credit. Field trip. Prerequisites: upperclass major and consent of the instructor. A formal written proposal is required before registration. The proposal becomes a permanent part of the student's file. Prerequisite for graduate students: undergraduate art major or consent of instructor.

ART 493. Senior Seminar.
Cr. 3. Independent work in a studio major's specialized program, combined with participation in group discussion and other special events. This work will result in a senior exhibition and portfolio. Field trip. Prerequisite: senior standing in the Bachelor of Science in Fine Arts program.

ART 495. Independent Study in Art.
Cr. 1-4. Independent work for junior or senior level students under the supervision of an instructor. Prerequisite: consent of the instructor.

ART 497. Honors Work in Art.
Cr. 3. See Honors Work, page 53.

ART 498. Honors Candidacy in Art.
Cr. 3. See Honors Work, page 53.

ART 499. The Teaching of Visual Arts.
Cr. 3. (See ED 499.) A study of the methods of teaching art in the secondary schools. This course may not be counted toward a major or minor in art. A field component is required. Field trip. Prerequisite: admission to Teacher Education.

ART 386. Internship.
Cr. 1-3. Internships in which students work with professional art-related organizations in such areas as photography, graphic design, or with an art museum. Prerequisite: consent of department chair. Grade is S/U only.

ART 390/590. Special Studies.
Cr. 1-4. (Graduate Cr. 1-3). Specialized work in the practice of art, the teaching of art and the history of art, arranged by a professor and one or more advanced students. Work in crafts, liturgical design, etc. may be included. A SAU grade option may be stipulated at the beginning of the course. May be repeated for credit. Field trip. Prerequisites: upperclass major and consent of the instructor. A formal written proposal is required before registration. The proposal becomes a permanent part of the student's file. Prerequisite for graduate students: undergraduate art major or consent of instructor.

ART 493. Senior Seminar.
Cr. 3. Independent work in a studio major's specialized program, combined with participation in group discussion and other special events. This work will result in a senior exhibition and portfolio. Field trip. Prerequisite: senior standing in the Bachelor of Science in Fine Arts program.

ART 495. Independent Study in Art.
Cr. 1-4. Independent work for junior or senior level students under the supervision of an instructor. Prerequisite: consent of the instructor.

ART 497. Honors Work in Art.
Cr. 3. See Honors Work, page 53.

ART 498. Honors Candidacy in Art.
Cr. 3. See Honors Work, page 53.
general chemistry. Depending on career goals and special requirements for graduate schools and professional programs, majors are advised to include in their plans of study courses in advanced chemistry, advanced mathematics including calculus, computer science, physics, and statistics.

Minor. A minimum of 16 credit hours in biology constitutes a minor. Two options are offered.

General Biology Minor. Courses must include BIO 171, 172, 270 and four additional credit hours from BIO 290 to 493.

Human Biology Minor. Courses must include BIO 151, 152 and eight additional credit hours from BIO 210 to 493.

Biology Club. Students with an interest in biology are invited to join the Biology Club.

Approval of Schedules. All students taking majors or minors in biology and all students planning to teach biological subjects must have their schedules approved by their academic advisers at the beginning of each semester.

Note: Entering students who satisfy requirements for Biology 171 or equivalent by passing the College Level Examination Program (CLEP) examination in Biology or the Advanced Placement Examination (AP) in Biology are granted 4 credit hours toward graduation.

BIO 125. Biotechnology.
3+2. Cr. 4. An introductory study of modern biology in which those aspects of biotechnology that affect the welfare of humanity are emphasized. This course is recommended for non-science majors who wish to take only one biology course for partial fulfillment of the General Education Requirements in Natural Science. Not open to students who have received credit for BIO 151 or 171. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

BIO 151. Human Biology I.
3+3. Cr. 4. An introductory study of the physiochemical nature of cells and tissues, cell division and human genetics, the musculoskeletal system, the nervous system and special senses and chemical control. May be used in partial fulfillment of the General Education Requirements in Natural Science. This course is required for nursing, physical education, and some allied health students. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination. Students may register concurrently for MATH 110 and BIO 151.

BIO 152. Human Biology II.
3+3. Cr. 4. A continuation of Human Biology I. A study of hematology and the anatomy and physiology of the following organ systems: cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive. May be used for partial fulfillment of the General Education Requirements in Natural Science. Prerequisite: BIO 151, MATH 110 or placement higher than MATH 110 on the math placement examination.

BIO 171. Unity of Life.
3+3. Cr. 4. A study of organic molecules, cells, tissues and organs for biology majors and general biology minors. Emphasis is placed on the principles which unify all living forms: structure, energetics, physiology, inheritance and development. May be used in partial fulfillment of the General Education Requirements in Natural Science. This course is required for biology majors and general biology minors including premedical and some other preprofessional students. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

BIO 172. Diversity of Life.
3+3. Cr. 4. A survey of the kingdoms of organisms, their relationships, and origins, and their roles in the economy of nature. Emphasis is on the structures and their functions, life cycles, development, distribution, ecology, evolution, and the social and economic importance of representative members. Field trips are required. May be used in partial fulfillment of the General Education Requirements in Natural Science. Prerequisite: BIO 171 or 151 or equivalent, or consent of the Chair of the Department; MATH 110 or placement higher than MATH 110 on the math placement examination.

BIO 205. Fundamental Nutrition.
Cr. 3. A study of the basic principles of human nutrition. Emphasis is on practical application and includes a focus on sports nutrition. Not open to students who have received credit for BIO 260.

BIO 210. Microbiology.
3+3. Cr. 4. A study of bacteria, viruses and selected fungi. Major emphasis is given to understanding infectious disease and immunology. Prerequisites: BIO 151 or 171 and CHEM 111 or 121.

BIO 250. Human Environmental Biology.
Cr. 3. A study of the relationships between humans, technology, and the environment. Emphasis is placed on ecological principles, human population growth, resources, and pollution. May be used by Elementary Education majors to fulfill the conservation requirement. Field trips are required.

Cr. 3. Basic principles of human nutrition including the nutrient functions, recommendations and food sources. Not open to students who have received credit for BIO 205. Prerequisite: CHEM 111 and BIO 151 and 152 or consent of the Chair of the Department.

BIO 270. Genetics.
3+3. Cr. 4. An introductory study of the basic laws of genetics, the physical and chemical basis of inheritance, genes as functional and structural units of heredity and development, and qualitative and quantitative aspects of genetic variation. Human genetics and social implications are discussed. May be used in partial fulfillment of the General Education Requirements in Natural Science. Prerequisite: BIO 171 or 151 or equivalent.

BIO 290/490. Biological Topics.
Cr. 2-4. A consideration of various topics in biology through lectures, laboratory work, field work and conferences. The topics are related to staff and student interests. May be taken more than once if topics are different. Prerequisite: certain topics may have specific course requirements. A sample of current and probable offerings are: Human Genetics, Macroevolution, and Principles of Physiology.

BIO 320. Comparative Vertebrate Anatomy.
2+3. Cr. 3. A comparative study of representative vertebrate animals, with emphasis on structures, functions and laboratory dissections. Prerequisite: BIO 152 or 172.

BIO 330. Mammalian Cell Culture.
2+3. Cr. 3. A study of the theory and practice of cultivating mammalian cells. Emphasis is on the application of mammalian cell systems in studying experimental cytology, mutagenesis and somatic cell genetics. Prerequisite: BIO 270.

BIO 340. Field Biology: Fall.
2+4. Cr. 3. This course is designed to acquaint students with organisms they are likely to encounter in the field in the late summer and fall months. The lectures emphasize the flowering plants and insects, the most abundant organisms at this time, but in the field attention is paid to other common or conspicuous organisms. Prerequisite: BIO 172.

BIO 350. Field Biology: Spring.
2+4. Cr. 3. This course is designed to acquaint students with organisms they are likely to encounter in the field in the late winter and spring months. The lectures emphasize the flowering plants and/or birds, but in the field attention is paid to other common or conspicuous organisms. Field trips are required. Prerequisite: BIO 172.

BIO 360. Modern Microscopy.
2+3. Cr. 3. An advanced study of practical techniques of light microscopy, transmission electron microscopy, scanning electron microscopy and digital image processing. Emphasis is placed upon producing micrographs that convincingly illustrate results of biology experiments. Collaboration with student investigators in other courses is strongly encouraged. Prerequisite: BIO 152 or 172.

BIO 420. Developmental Biology.
3+3. Cr. 3. An introduction to the descriptive and analytic study of plant and animal development and growth, with emphasis on higher plants and vertebrate animals. Prerequisite: BIO 270.

3+3. Cr. 4. A study of organisms in relationship to their physical and biotic environment. There is considerable field work in local terrestrial and aquatic habitats. Field trips are required. Prerequisite: BIO 172 and preferably a prior field course.

BIO 450. Molecular Biology.
3+3. Cr. 4. A study of the molecular basis of genetic interactions and processes in prokaryotic and eukaryotic organisms. Laboratories emphasize standard microbiological techniques as well as recent advances in gene cloning and molecular genetics. Prerequisites: BIO 270 and CHEM 221.

BIO 460. Cell Biology.
3+3. Cr. 4. A study of the fundamental physiological activities of animal and plant cells and tissues. The course includes lectures, assigned readings and laboratory work in cell structure, organelles, energy transformation, membrane transport, excitability, contraction, and signal transduction. Prerequisite: BIO 270 and CHEM 221.

BIO 489. The Teaching of Natural Sciences.
Cr. 3. (See Education 489.) A study of the methods of teaching natural sciences in the secondary schools. Includes lectures, discussions, demonstrations and projects. This course may not be counted toward a major or minor in this department. A field component is required. Prerequisite: admission to Teacher Education.

BIO 493. Seminar in Biology.
Cr. 1. Student and staff presentation and discussion of selected topics in biology.
Current topics are Animal Behavior, Gene Technology, Embryology, Immunology, and Cancer Biology. Intended for seniors. Prerequisites: 12 credit hours in Biology or consent of the Chair of the Department; certain topics may have specific course prerequisites. Normally three topics are offered each semester so that during a two-year period a broad spectrum of topics is available. A maximum of four seminars (on different topics) may be credited toward graduation. S/U grade optional.

**BIO 494. Premedical Arts Colloquium.**
Cr. 0-1. (Also offered as CHEM 494.) All Premedical Arts students are encouraged to register for this course every semester. May not be counted for a major or minor. Students who register for the colloquium for 1 credit must have the consent of the instructor. A maximum of 2 credit hours in this course may be counted toward graduation. S/U grade.

**BIO 495. Research in Biology.**
Cr. 1-2. Special research problems. Prerequisites: 12 credit hours of biology, prior approval of a supervising instructor and the Chair of the Department is required. A maximum of 4 credit hours in this course may be applied toward graduation. S/U grade optional.

**BIO 497. Honors Work in Biology.**
Cr. 3. See Honors Work, page 53.

**BIO 498. Honors Candidacy in Biology.**
Cr. 3. See Honors Work, page 53.

**BIO 499. Biology Colloquium.**
Cr. 0-1. Biology majors and minors are encouraged to register for this course. Colloquium presents insights into the living world beyond the material found in regular course offerings. S/U grade.

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## Broadcast Meteorology

This program is administered by the Department of Geography and Meteorology.

There is a considerable demand nationwide for trained professionals able to communicate meteorological information effectively and accurately, either through the broadcast media or in association with various consulting firms. This major prepares students interested in careers involving broadcasting (cable, television, and radio) and weather forecasting. It is designed to offer sufficient breadth to address necessary preparation in the fields of communication and meteorology. Students selecting this major will have access to the excellent broadcasting and meteorological forecasting facilities in the associated programs.

The Department of Communication operates an industry-quality three-camera production studio, equipped with chromakey and teleprompts. Special effects and advanced animation editing are readily available through 12 dual-processor Pentium nonlinear digital video/audio editing workstations.

The Department of Geography and Meteorology maintains the University Weather Center, where students routinely provide weather data and forecasts for Northwest Indiana. Meteorological equipment includes a 50-foot instrumented tower, a UNIDATA-Mldas-X and GEMPAK data retrieval and display system, DTV and WeatherTap Doppler radar feeds, and other computers, providing students with considerable hands-on experience.

Internship opportunities have been established with a number of broadcast stations, including WGN-TV in Chicago.

Many students are active members of a regional chapter of the National Weather Association, which sponsors professional and social events, field trips, and public service. In addition, the department is home to VUSIT, one of the largest university storm intercept teams in the country.

Students interested in careers with the federal government, or who are planning to attend graduate school in meteorology, should enroll in the Bachelor of Science program in meteorology.

**Program Requirements.** A total of 41 credit hours is required. Students completing the program in Broadcast Meteorology will have fulfilled the major field requirements for the Bachelor of Arts degree.

**Required Courses**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>COMM 100</td>
<td>Survey of Communication Fields</td>
<td>3</td>
</tr>
<tr>
<td>COMM 198</td>
<td>Nonlinear Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>COMM 250</td>
<td>Radio and Audio Production</td>
<td>3</td>
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<tr>
<td>COMM 251</td>
<td>Introduction to Broadcast Production</td>
<td>3</td>
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<tr>
<td>COMM 490</td>
<td>Topic: Broadcast News or Directing</td>
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<tr>
<td>COMM 380</td>
<td>Television Producing and Directing</td>
<td></td>
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<tr>
<td>COMM 285</td>
<td>Television Field Production or Radio</td>
<td>3</td>
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<tr>
<td>COMM 261</td>
<td>Media Writing Styles</td>
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<tr>
<td>MET 103</td>
<td>Meteorology</td>
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<tr>
<td>MET 215</td>
<td>Climatology</td>
<td>3</td>
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<tr>
<td>MET 216</td>
<td>Introduction to Meteorological Observation and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MET 279</td>
<td>Severe Storm Prediction and Nowcasting</td>
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<tr>
<td>MET 486</td>
<td>Internship in Meteorology</td>
<td>3</td>
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<tr>
<td>MET 490</td>
<td>Selected Topics in Meteorology: Weather Systems Analysis</td>
<td>3</td>
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<tr>
<td>MATH 131 or 151</td>
<td>Calculus I</td>
<td>4</td>
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</table>
Chemistry

Professors Cook, Kosman (Chair); Associate Professors Engerer, Goyne; Assistant Professor Erhardt.

Chemistry is the discipline that studies the fundamental nature of matter and the changes in energy and properties accompanying compositional changes in matter. As a scientific discipline, chemistry is firmly rooted in the liberal arts tradition, placing emphasis on the development of intellectual capability and judgment. Yet it is also a very practical discipline dealing with the fundamental technology of matter that affects our environment and our society. Because of the nature of the discipline, a wide diversity of careers is possible with a chemistry major. These range from industrial product development to academic research, from medical and paramedical careers to forensic (law enforcement) chemistry. Government, industry, schools and universities and many private institutions, such as museums, have a variety of openings for chemists. About two-thirds of the chemistry graduates continue their education in graduate, medical, or professional school. In almost every instance, those who go to graduate school receive complete financial support in the form of a fellowship or an assistantship.

The programs of the Department provide balance between theoretical and practical aspects of chemistry. Opportunities for carrying out directed or honors work research are available. A wide selection of instruments is maintained for student use in instructional laboratory work and research. The Department is approved by the American Chemical Society for the training of professional chemists. A minimum of 40 credit hours in chemistry is required. This major must include CHEM 121 (or 131), 122 (or 132), 190, 221, 222, 230, 315, 321, 322, 421, 422, and 2 credit hours of 496. PHYS 141 and 142 (with labs) and MATH 234 (or equivalent) are required for certification. CHEM 496 may instead be taken as the Honors Work sequence, 497 and 498.

4. Bachelor of Science degree in Biochemistry. The program leading to this degree is approved as a degree option by the American Chemical Society for the training of professional chemists. A minimum of 44 credits in chemistry and 12 credits in biology is required. Courses must include CHEM 121 (or 131), 122 (or 132), 190, 221, 222, 230, 315, 316, 317, 321, 322, 421, 2 credit hours of 496, BIO 171, 270, and (450 or 460). PHYS 142 (with lab) and MATH 234 (or equivalent) are required for certification. The research conducted in CHEM 495 must be in the area of biochemistry. It may be taken as BIO 495. It may also be taken as the Honors Work sequence, 497 and 498.

Biochemistry Concentration. Within the 32-credit Bachelor of Science degree option, a student may choose to add a biochemistry concentration. This requires CHEM 315, 316, and 317, BIO 171, 270, and (450 or 460) along with the courses listed above in option 2. Students choosing this concentration will most likely get a biology minor, which would also require BIO 172.

Minor. A minimum of 16 credit hours in chemistry constitutes a minor.

Chemistry Club. The Chemistry Club, an affiliate of the American Chemical Society, provides extracurricular opportunities for students interested in chemistry.

Cooperative Education. Qualified students may combine semesters in chemical research at a professional work site with other semesters of traditional academic studies on campus. Although this program will probably extend the participating student’s college education beyond the normal four years, the students will be financially reimbursed by the cooperating employer and also receive credit toward the chemistry major. No more than six credits earned in Cooperative Education may be applied toward minimum requirements of the major in Chemistry. Enrollment in this program is limited by the availability of positions offered by suitable cooperating companies. Eligible students are junior or senior chemistry majors who have completed CHEM 222 with a cumulative grade point average of 2.50 in their mathematics and science courses. For further information, refer to Cooperative Education, College of Arts and Sciences, page 54.

Credit by Examination. Credit for CHEM 111, 121, 122 may be earned through the College Level Examination Program subject examination in General Chemistry or through the Advanced Placement Examination in Chemistry.

Approval of Schedules. All students taking a major or a minor in chemistry must have their schedules approved by the Chair of the Department at the beginning of each semester.

CHEM 111. Introduction to Chemistry. 3+2, Cr. 4. A one semester overview of general, organic, and biochemistry. Intended for non-science majors who elect chemistry to meet one of the natural science requirement. Students with a major or minor in elementary education, nursing, or physical education ordinarily take this course to meet their chemistry requirement. Not open to students with credit for CHEM 115, 121, or 131. Students may take CHEM 111 prior to taking CHEM 121, but may not use both courses toward a chemistry major or minor, or toward fulfillment of the General Education Requirements in Natural Science. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

CHEM 115. Essentials of Chemistry. 3+2, Cr. 4. A one semester introductory course in the principles of chemistry for engineering students. Not open to students with credit for CHEM 121 or CHEM 131. Prerequisite: enrollment in the College of Engineering or consent of the Chair of the Chemistry Department.

CHEM 116. Applications of Chemistry in Engineering. 3+3, Cr. 4. A continuation of CHEM 115; offering additional emphasis in the principles of chemistry for engineering students, especially civil engineering students, with emphasis on analytical chemistry. Not open to students with credit for CHEM 122 or CHEM 132. Prerequisite: CHEM 115 and enrollment in the College of Engineering, or consent of Chair of the Chemistry Department.

CHEM 121. General Chemistry I. 3+3, Cr. 4. An introductory course in the principles of chemistry for science majors. The first of a two semester sequence. Required of majors and minors in chemistry and students in premedical, pre-dental, or medical technology programs, except for students who take CHEM 121. Not open to students with credit for CHEM 115 or CHEM 131. Prerequisite: placement of CHEM 121 or CHEM 131 on the chemistry placement examination, or MATH 114 or placement higher than MATH 114 on the math placement examination.

CHEM 122. General Chemistry II. 3+3, Cr. 4. A continuation of CHEM 121 with an emphasis on descriptive inorganic chemistry. Not open to students with credit for CHEM 116 or CHEM 132. Prerequisite: CHEM 115, 121, or 131.
CHEM 131. General Chemistry I - Honors.
3+3, Cr. 4. Same lecture as CHEM 121, with a more challenging, in-depth laboratory program. Intended for students who are willing to intensify their learning. Recommended for chemistry majors. Not open to students with credit for CHEM 115 or CHEM 121. Prerequisite: placement of CHEM 131 on the chemistry placement examination, or consent of instructor.

CHEM 132. General Chemistry II - Honors.
3+3, Cr. 4. A continuation of CHEM 131. Same lecture as CHEM 122, with a more challenging, in-depth laboratory program. Intended for students who are willing to intensify their learning. Recommended for chemistry majors. Not open to students with credit for CHEM 116 or CHEM 122. Prerequisite: CHEM 131 or consent of instructor.

CHEM 190. Introduction to Chemical Research.
7 weeks, Cr. 1. An introduction to chemical research methods and literature. A laboratory project is required. Prerequisite: CHEM 121 or 131. S/U grade.

CHEM 221. Organic Chemistry I.
3+3, Cr. 4. A continuation of CHEM 220. A laboratory project is required. Prerequisite: CHEM 116, 122, or 132.

CHEM 222. Organic Chemistry II.
3+3, Cr. 4. A continuation of CHEM 221. A further study of the reactions, structures and properties of carbon compounds, including reaction mechanisms and complex organic reactions. Prerequisite: CHEM 221.

CHEM 315. Biochemistry I.
Cr. 4. Structure and function of proteins, carbohydrates and lipids with particular stress on physical biochemistry and enzyme kinetics. Overview of metabolism with an emphasis on integration and control. Prerequisite: CHEM 222.

CHEM 316. Biochemistry II.
Cr. 3. A continuation of CHEM 315 that is focused on the biosynthesis of nucleic acids and proteins and the regulation of these processes. Special topics in biochemistry. Prerequisite: CHEM 315.

CHEM 317. Biochemistry Laboratory.
0+3, Cr. 1. An introduction to the experimental methods used to characterize biomolecules and biochemical reaction. Prerequisite: CHEM 315 (may be taken concurrently).

CHEM 321. Physical Chemistry I.
3+4, Cr. 5. A theoretical study of chemistry involving thermodynamics, kinetics and modern structural concepts. Prerequisites: CHEM 221, MATH 152 or equivalent, PHYS 142. Recommended: CHEM 230.

CHEM 322. Physical Chemistry II.
4+3, Cr. 5. A continuation of CHEM 321. Prerequisite: CHEM 321.

CHEM 332. Advanced Instrumental Analysis.
2+4, Cr. 3. In depth study of theory and practice of nuclear magnetic resonance, spectroscopy, chromatography, and electrochemistry. Other topics include electronics (operational amplifiers) and computer interfacing. Prerequisite: CHEM 311 or 321.

CHEM 350. Lasers and Optics in Chemistry.
2+4, Cr. 3. Overview of basic optics, including ray tracing and optical systems. Theory and operation of lasers, including picosecond and femtosecond systems. Applications of ultrashort pulses to transient chemical events. Prerequisite: CHEM 311 or 321 or consent of instructor.

CHEM 360. Chemical Literature and Chemical Writing.
Cr. 1. Discussion and library work on the important sources of chemical information. Experience in the use of Chemical Abstracts, Beilstein, chemical journals and government publications in chemistry. Includes discussion and practice with computerized data bases. Library work leads to the writing of a paper as well as an abstract of a single article. For the student who plans to do graduate work in chemistry. S/U grade.

CHEM 381. Cooperative Education in Chemistry I.
Cr. 0.5-2. Experience in chemical research with a cooperating employer. Written report required. Prerequisites: CHEM 222 and approval of the Chair of the Department. S/U grade.

CHEM 390. Topics in Chemistry.
Cr. 2. A study of various topics in chemistry. Prerequisite: dependent upon the topic.

CHEM 421. Advanced Inorganic Chemistry.
Cr. 3. A study of advanced topics in inorganic chemistry with emphasis on structure and bonding, transition metal chemistry, and organometallic chemistry. Prerequisite: CHEM 222 and (311 or 321) or consent of the Chair of the Department.

CHEM 422. Inorganic Chemistry Laboratory.
0+4, Cr. 1. Experiments involving structures and reactions of inorganic compounds. Prerequisite: CHEM 421 (may be taken concurrently).

CHEM 440. Polymer Chemistry.
Cr. 3. An introduction to the study of macromolecules: their preparation, properties, reaction and uses. Emphasis is on synthetic macromolecules. Prerequisite: CHEM 222.

CHEM 450. Advanced Organic Chemistry.
Cr. 3. A study of physical organic chemistry and strategy in modern organic synthesis. Topics include linear free energy relationships, the Woodward-Hoffman rules and semiempirical quantum mechanical calculation techniques for organic molecules. Prerequisites: CHEM 222 and (311 or 321).

CHEM 460. Quantum Mechanics.
Cr. 3. The fundamental concepts of quantum mechanics are examined. Topics include state functions and their interpretations, the Schroedinger equation, approximation methods, multielectron atoms and molecules. Prerequisites: CHEM 322 or consent of the instructor.

CHEM 482-483. Cooperative Education in Chemistry II-III.
Cr. 0.5-2. Continuation of CHEM 381. Prerequisites: CHEM 381, satisfactory employer evaluation, and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

CHEM 489. The Teaching of Natural Sciences.
Cr. 3. (See ED 489.) A study of the methods of teaching natural sciences in the secondary schools. Lectures, demonstrations and projects. This course may not be counted toward a major or minor in chemistry. A field component is required. Prerequisite: admission to Teacher Education.

CHEM 490. The Scientific Endeavor.
Cr. 3. An exploration of the scientific enterprise involving a study of foundational principles and assumptions of the scientific endeavor, its various methodologies, and its scope and limitations. This will include illustrations from historical case studies and "scientific revolutions". Students will also study the ethical and moral connections between their personal and professional science lives. Prerequisite: junior or senior standing. This course may not be used to fulfill the requirements of a science major.

CHEM 493. Seminar in Chemistry.
Cr. 0. All Chemistry majors are expected to register for this course. Report required in this forum for all those registered for CHEM 495. S/U grade.

CHEM 494. Premedical Arts Colloquium.
Cr. 0-1. (Also offered as BIO 494.) All Premedical Arts students are expected to register for this course every semester. May not be counted for a major or minor. Students who register for the colloquium for 1 credit must have the consent of the instructor. A maximum of 2 credit hours in this course may be counted toward graduation. S/U grade.

CHEM 495. Special Problems in Chemistry.
Cr. 0.5-2. A course in which each student attacks a chemical problem by study of the literature and by work in the laboratory. A written report is required. Must be registered for CHEM 490 to report orally on research results. May be repeated for additional credit. S/U grade. Prerequisite: consent of Chair of the Department.

CHEM 497. Honors Work in Chemistry.
Cr. 3. See Honors Work, page 53.

CHEM 498. Honors Candidacy in Chemistry.
Cr. 3. See Honors Work, page 53.
Chinese and Japanese Studies

Administrative Committee:
Professor Brietzke (Law); Associate Professors Bernard (Economics), Lin (Political Science, Chair), Nelson (Psychology); Assistant Professors McGuigan (College of Arts and Sciences), Ramam (Economics); Instructor Meng (Foreign Languages and Literatures).

Students completing the program in Chinese and Japanese Studies will have fulfilled major field requirements for the Bachelor of Arts degree under the interdisciplinary program option. Students majoring in another field may fulfill the major field requirements by completing a second major or a minor in Chinese and Japanese Studies.

Objectives. Programs in Chinese and Japanese Studies provide an opportunity for students to focus their study on this important area of the world, by examining the history, culture, and religions of China and Japan, in addition to developing some proficiency in the Chinese or Japanese language. It provides essential background for students considering a career in education, business, government, or the arts related to the East Asian cultural sphere. Students are strongly encouraged to participate in overseas programs in East Asia, particularly at the University’s exchange program at Zhejiang University and at Kansai Gaidai and Osaka International University in Japan. Courses taken in exchange programs may be used to fulfill major and minor requirements.

Program Requirements. A minimum of 53 credit hours, selected from the following list of courses approved by the Administrative Committee constitutes a major in Chinese and Japanese Studies. A number of these courses may also be counted toward fulfillment of the General Education Requirements for the Bachelor of Arts degree. FLC 101 and 102 may fulfill the Foreign Language Requirement; any of the theology courses may fulfill the Theology Level III Requirement; any of the history courses or PHIL 220 or 290 may fulfill the Philosophical and Historical Studies Requirement; ART 311 may fulfill the Fine Arts/Fine Arts-Literature Requirement; and any appropriate course may fulfill the Non-Western or Third World Studies requirement. Other appropriate courses, including credits in supervised reading and research, may be substituted with the permission of the Chair of the Committee. Courses must include FLC 240 or GLST 150, HIST 341, 342, FLC 101 and 102 or FLC 101 and 102 or EAST 109 and 110, FLC 250 or 251 or EAST 390, POLS 335 or 490 (East Asian), THEO 363, EAST 493 plus 24 credits in elective courses.

Complementary Major. A student fulfilling major field requirements under a Major Option in another field may pursue Chinese and Japanese Studies as a second major. The requirement for the second major is a minimum of 35 credit hours selected from the following list of courses. Other appropriate courses, including credits in supervised reading and research, may be substituted with the permission of the Chair of the Committee. Courses must include FLC 240 or GLST 150, HIST 341 or HIST 342, FLC 101 and 102 or FLC 101 and 102 or EAST 109 and 110, FLC 250 or 251 or EAST 390, THEO 363, plus 12 credits in elective courses listed below.

Minor. Students majoring in another field may pursue a minor in Chinese and Japanese Studies. The requirement for the minor is a minimum of 18 credit hours selected from the following list. Courses must include FLC 240 or GLST 150, HIST 341 or HIST 342, FLC 250 or 251 or EAST 390, and THEO 363. It is strongly recommended that the student also complete FLC 101 and 102 or FLC 101 and 102 or EAST 109 and 110. Only one course in Chinese or Japanese language may be counted toward the Chinese and Japanese Studies minor.

East Asian Studies Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 311</td>
<td>Topics in the Theory and History of Art: East Asian Topics</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>FLC 101</td>
<td>Beginning Chinese I</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>FLC 102</td>
<td>Beginning Chinese II</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>FLC 203</td>
<td>Intermediate Chinese I</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>FLC 204</td>
<td>Intermediate Chinese II</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>COMM 390</td>
<td>Topics and Projects: East Asian Topics</td>
<td>1-3 Cr.</td>
</tr>
</tbody>
</table>

Approval of Schedules. All students taking a major in Chinese and Japanese Studies must have their schedules approved by the Chair of the Administrative Committee at the beginning of each semester. EAST 109, 110, 209, and 210 are offered only in China, where students attend language classes 15-18 hours per week. These credits may apply toward the general education foreign language requirement.


EAST 115. Cultures of China and Japan. Cr. 3. An introduction to the cultures of China and Japan, focusing on the traditional roots of contemporary civilization.


EAST 390. Topics in East Asian Culture. Cr. 3. A study of particular topics related to issues in East Asian culture. Topics include Human and Divine in China, Work and Contemplation in Buddhism and Christianity, and Health and Healing: East and West. One topic is generally offered once a year and is generally cross-listed with CC 325.

EAST 395. Chinese Culture and Civilization. Cr. 3. An interdisciplinary study of key aspects of Chinese culture and civilization. Taught in English. This course will satisfy the Fine Arts/Fine Arts Literature and Global Cultures and Perspectives component of the General Education Requirements. Offered only in China.

EAST 493. East Asian Senior Seminar. Cr. 3. Research in the basic cultural themes of East Asia and their impact on the world today. Prerequisite: consent of the Chair of the Committee.

EAST 495. Supervised Reading and Research. Cr. 1-3. Prerequisite: consent of the Chair of the Committee.


Communication

Associate Professors Kocher (Chair), Neff; Instructors Douglas, Steinwart; Lecturers Bailey, Powell.

The Department of Communication focuses on teaching the process of communication as it applies to the areas of study it represents: communication law, new media-journalism, public and corporate communication, public relations, television-radio and speech/debate. In all of these fields the Department encourages students to become ethical, critical, and effective sources and receivers of communication; it endeavors to motivate them to serve their community. The department stresses additional credits of Steinwart; Lecturers areas, and Public Relations: including Genera l and Corporate Communication:

- **COMM 100, 198, 250, 251, 363, 380, 386, 450, and 490.**
- **Minor.** A Communication minor consists of 15 credit hours in one of the department major areas (Communication Law, New Media-Journalism, Public and Corporate Communication, Public Relations, or Television-Radio).
- **Public Speaking and Debate Minor.** Students electing a minor in Public Speaking and Debate must complete a total of 15 credit hours selected as follows: COMM 145, 243, 247, 344, and 351. For students choosing this minor, COMM 145 and 243 are prerequisites for the other listed courses.
- **Teaching Programs.** Students who plan to teach journalism or speech communication and theatre in secondary schools with a departmental major or minor should consult the Chair of the Department and the Education Department for specific requirements.
- **Cooperative Education.** Qualifying students may participate in prearranged, approved professional work experiences. During their employment, students are financially reimbursed by the cooperating employer. Credits earned in this program apply toward the major and may substitute for internship requirements. For further information, refer to Cooperative Education, College of Arts and Sciences, page 54.
- **Degree.** Students completing one of the five department majors together with the degree requirements of the College of Arts and Sciences fulfill requirements for the Bachelor of Arts degree.
- **Approval of Schedules.** All students pursuing a major or minor in communication must have their schedules approved by their departmental adviser at the beginning of each semester.

**SPECIAL OPPORTUNITIES Television/Radio Studio.** The Department teaches all television and radio classes in its production studios and the studio of WWUR, the campus radio station. The studios are fully equipped for all levels of television and radio producing and provides a quality laboratory experience. Students are also placed as interns in area television, radio and cable stations, and at video production companies. Digital nonlinear video and audio editing facilities interface with the studios and are available for student video and audio work.

**Student Organizations.** The department sponsors the Valparaiso University Communication Organization (VUCO), and has active student chapters of the Association for Women in Communications and the Public Relations Student Society of America (PRSSA). The department is also a sponsor of the Student Debate Club.

**GENERAL COMMUNICATION COURSES**

**COMM 100. Survey of Communication Fields.**
- **Cr. 3.** This course survey views communication from a critical cultural perspective. Students are introduced to the processes of communication as they operate within a global context. Students learn oral and written formats including research design for such specific areas of communication as public communication, mass media (broadcast and print), public relations, and Web technology. This course is primarily intended for communication majors as preparation for more advanced coursework in the department.

**COMM 140. Public Speaking.**
- **Cr. 2.** Fundamental principles of organization, generation of argument, use of language and components of delivery for effective construction and performance of messages in a variety of speechmaking experiences.

**COMM 145. Interpersonal Communication.**
- **Cr. 3.** A study of human communication dealing with interpersonal, dyadic, small group and nominal areas. Students participate in a variety of semi-structured and pre-structured communication events including presentation skill development.

**COMM 243. Public Communication.**
- **Cr. 3.** A study of public communication in a variety of structured settings. Students participate in public interviews as well as deliver informative speeches, persuasive speeches, special occasion speeches and rhetorical criticism.

**COMM 247. Persuasion.**
- **Cr. 3.** A study of motivational communication. This course includes theories of persuasion and offers structured experiences for the producer and consumer in the persuasive process.

**COMM 344. Argumentation.**
- **Cr. 3.** This course includes structured experiences in the research and development of arguments, case construction, refutation and evidence. Includes preparation for participation in competitive debate team events.

**COMM 350. Political Communication.**
- **Cr. 3.** This course establishes a communication perspective of a communicative event or series of events - the political election campaign. Fundamental theoretical concerns, principles, and practices will be examined to provide a broader framework for renewed understanding of and interest in the political system.

**COMM 351. Human Influence in Communication.**
- **Cr. 3.** A study of philosophical, social, psychological, and ethical language use within the field of communication. This course employs language as a tool for discovery, insight, and sharing meanings.

**COMM 381. Cooperative Education in Communication I.**
- **Cr. 0.5-3.** Professional work experience with a cooperating employer. Written report required. Prerequisite: approval of the Chair of the Department.

**COMM 382-383. Cooperative Education in Communication II-III.**
- **Cr. 0.5-3.** Continuation of COMM 381. Prerequisite: COMM 381 and approval of the Chair of the Department. May be repeated beyond 383 for additional credit.

**COMM 386. Internship in Communication.**
- **Cr. 3.** Internships in which students may intensively study a particular area of communication. Prerequisite: consent of the department Internship Coordinator. Open to declared departmental majors or minors only. Students must adhere to internship requirements described on the department's Web site. SU grade only.

**COMM 490. Topics in Communication.**
- **New Media-Journalism:**
- **Cr. 3.** In-depth study of a particular topic (e.g., Parliamentary Debate, Political Campaigns). Prerequisite: junior standing.

**COMM 495. Independent Study.**
- **Cr. 1-3.** Specific topics based on interests of students and faculty. Students must submit a successful proposal to an appropriate faculty member prior to registering for this course. May be repeated if topics are different.

**COMM 497. Honors Work in Communication.**
- **Cr. 3.** See Honors Work, page 53.

**COMM 498. Honors Candidacy in Communication.**
- **Cr. 3.** See Honors Work, page 53.
COMMUNICATION LAW COURSES

COMM 121. Communication Law. Cr. 3. An introductory course studying the history of the American legal system and its evolution into the information age. Students will also address the ethical issues that arise in all societies governed by rule of law.

COMM 269. Communication Law and Ethics. Cr. 3. A comprehensive study of the major legal topics related to the communications field. The course includes examination of legal and ethical issues posed by the First Amendment, Journalist's Privilege, Obscenity, Fair Trial, and Copyright Law. Prerequisite: COMM 121 or consent of instructor.

COMM 301. Defamation and Privacy in the Media. Cr. 3. This course will provide students the opportunity to intensively study defamation and invasion of privacy - two areas that substantially affect journalists. Prerequisite: COMM 269.

COMM 302. Communication Law and the Internet. Cr. 3. Study of the major legal topics that affect those who use the Internet, whether for commerce or pleasure. These include jurisdiction, obscenity, defamation, copyright, trademark, and first amendment rights. Prerequisite: COMM 269.

COMM 380. Internship in Communication Law. Cr. 3. Internships in which students may intensively study a particular area of communication. Prerequisite: consent of the departmental internship Coordinator. Open to declared departmental majors only. Students must adhere to internship requirements described on the department's Web site. S/U grade only.

COMM 386. Internship in New Media-Journalism. Cr. 3. Internships in which students may intensively study a particular area of communication. Prerequisite: consent of the departmental internship Coordinator. Open to declared departmental majors only. Students must adhere to internship requirements described on the department's Web site. S/U grade only.

COMM 385. Crisis Communication. Cr. 3. An examination of the role of media in crisis communication. Students will examine the role of media in the development of public relations and the role of public relations in the development of community relations. Prerequisite: consent of the chair of the department. S/U grade only.

COMM 410/512. Integrated Communication. Cr. 3. An examination of contemporary communication strategies in public and private settings which combine associated areas such as public relations, marketing and advertising. Prerequisite: junior or senior standing.

COMM 386. Internship in Public and Corporate Communication. Cr. 3. Internships in which students may intensively study a particular area of communication. Prerequisite: consent of the departmental internship Coordinator. Open to declared departmental majors only. Students must adhere to internship requirements described on the department's Web site. S/U grade only.

COMM 490. Topics in Public and Corporate Communication. Cr. 3. In-depth study of a particular topic (e.g., corporate communication case studies, not-for-profit communication). Prerequisite: junior standing.

PUBLIC RELATIONS COURSES

COMM 265. Principles of Public Relations. Cr. 3. Overview of the history, development, principles and practices of public relations, investigation of public relations ethics, relationships and roles in communication and society; case studies and application of public relations research and practices.

COMM 366. Public Relations Theory in Practice. Cr. 3. Course emphasizes critical thinking, oral and written skills, the presentation and organization of artifacts and data, and research-based presentation with experience in client management. Offered as an on-line course. Prerequisite: COMM 265.

COMM 374. Advanced Public Relations. Cr. 3. Advanced study with emphasis on the relationship between theory and practice, strategic planning, problem solving, and creativity within a case study format. Prerequisite: COMM 265 or consent of the Chair of the Department.

COMM 375. Community Relations. Cr. 3. This course examines the role of community relations within a multicultural context. Specifically addressed is the professional role of public relations in the development of community relations emphasizing particularly the relationships between theory and practice. Community relations are examined within a multicultural context. Prerequisite: junior standing.

COMM 376. Crisis Communication. Cr. 3. Students are exposed to crisis case studies, have contact with public relations professionals managing crisis situations, and are connected with the necessary theory to evaluate the practice of crisis communication. Prerequisite: junior standing.

COMM 388. Internship in Public Relations. Cr. 3. Internships in which students may intensively study a particular area of communication. Prerequisite: consent of the department internship Coordinator. Open to declared departmental majors only. Students must adhere to internship requirements described on the department's Web site. S/U grade only.

COMM 490. Topics in Public Relations. Cr. 3. In-depth study of a particular topic (e.g., public relations audits, public relations research). Prerequisite: junior standing.

TELEVISION-RADIO COURSES

COMM 250. Radio and Audio Production. Cr. 3. Hands-on practical course in radio production techniques. Examines the practice of audio production and highlights the applications to production and on-air techniques. The emphasis is on experiences through production exercises and projects.

COMM 251. Introduction to Broadcast Production. Cr. 3. A practical introduction and application of television studio production and directing that determine aesthetic quality. Techniques and concepts of video field production and video editing are introduced. Students produce studio-based projects which emphasize scripting, camera operations, and on-camera presentation. Prerequisite: COMM 198.

COMM 350. Broadcast, Internet and Cable Programming. Cr. 3. Examination of the principles and practices of programming for television, the Internet, cable, and radio. Analysis of the theories and practices of programming, including relationships to audience, promotion, advertising, and public relations.

COMM 380. Television Producing and Directing. Cr. 3. The exploration of strategies and methods for all areas of field production including audio recording, camera operations, lighting, and production planning, with...
emphasis on proficiency with cameras and
digital nonlinear editing systems. Projects
include preparation of materials for resume,
student productions, and possible off-campus use. Prerequisite: COMM 251 or
consent of Chair of the Department.

COMM 385. Television Field Production.
Cr. 3. A workshop in which students are
offered the opportunity to produce and direct
television field productions while developing
specialized production skills (e.g., sound design, lighting, and technical direction). The
course covers the basic steps of television field productions while developing
skills of producing, directing, writing, editing,
camera, lighting, and sound, pertaining to
documentary productions, are examined.
Projects vary from campus-based productions
to off-campus projects approved by the
instructor. Prerequisite: COMM 198 and 251,
or consent of instructor.

COMM 490. Topics in Television-Radio.
Cr. 3. In-depth study of a particular topic (e.g.,
media stereotypes, sports broadcasting). Prerequisite: junior standing.

COMM 450. Documentary Production.
Cr. 3. A workshop for those students
interested in documentary style video
production. Emphasis is placed on the
production of video documentaries. Projects
include productions shot and edited on
camera, lighting, and sound, pertaining to
digital equipment. The technical
skills of producing, directing, writing, editing,
project on the
department.

Economics

Associate Professors Bernard,
Shingleton (Chair); Assistant
Professors Raman, Wunder.

Economics provides a logical, ordered
way of looking at problems, issues and
policies regarding the production,
distribution and consumption of goods and
services. It draws upon other social
sciences and mathematics to confront a
wide range of topics from environmental
abuse to economic growth to business
regulation and other governmental
interactions with the commercial world. As
economics in general deals with choice and
decision making, it is of great value on both
a personal and a professional level.

Economics majors have a wide range of
career choices, including government or
business economist, banking economist,
investment analyst, trade association
 economistic and others.

Students who distinguish themselves by
high scholarship may be elected to
Omicon Delta Epsilon, a national
economics honorary organization.

Major. Requirements for the major in
economics may be fulfilled by completion
of one of the following programs. Two of
the four economics electives must be at
the 300 level or higher.

General Economics Major. A
minimum of 27 credit hours in economics
constitutes this major. Courses must
include ECON 221, 222, 321, 322, and 325.
In addition, either IDS 205 or MATH 240 is
required.

Economics and Computer Analysis
Major. A minimum of 27 credit hours in
economics is required. Courses must
include ECON 221, 222, 321, 322, and 325.
Computer science courses which must be
completed are CS 157, 225, and 325. Also
required is a minor in mathematics
including MATH (124, 131, or 151), (122,
132, or 152), 240 and 320 (or an approved
alternative).

General Economics Minor. A
minimum of 18 credit hours in economics
constitutes a minor. Courses must include
ECON 221, (222 or 223), one of (321,322,
or 325) and one additional course selected
from 300 or above.

Degree. Completion of the degree
requirements of the College of Arts and
Sciences with a major in Economics leads
to the Bachelor of Arts degree.

Credit by Examination. Credit for
ECON 221 and 222 may be earned through
the College Level Examination Program
subject examination in Introductory
Economics.

Approval of Schedules. All students
taking a major or minor in economics must
have their schedules approved at the
beginning of each semester.

ECON 138. The Economics of Health,
Education, and Welfare.
Cr. 3. This course is an introduction to the
economics of public and private provision
of health, education and social services in urban
and developing economies. May be used in
partial fulfillment of the Social Analysis
component and for the U.S. Diversity
component of the General Education
Requirements.

ECON 210. Environmental Economics and
Policy.
Cr. 3. An introductory study of the relationship
between environmental quality and economic
behavior, with an emphasis on the principles of
demand, costs, and economic efficiency.
Current developments in the United States and
world environmental policies will be analyzed.
May be used in partial fulfillment of the Social
Analysis component of the General Education
Requirements.

Cr. 3. An introductory study of the central
functions and problems of an economic system
with emphasis on the determinants of
consumer demand, producer supply and their
interactions in the marketplace. May be used in
partial fulfillment of the Social Analysis
component of the General Education
Requirements.

Cr. 3. An introduction to macroeconomic
analysis with emphasis on national income,
consumer spending, investment, government
and monetary aspects. May be used in partial
fulfillment of the Social Analysis component of
the General Education Requirements.
Cr. 3. An introduction to international aspects of economics with emphasis on international trade, international finance, comparative economic systems, and problems facing developing nations. May be used in partial fulfillment of the Social Analysis component of the General Education Requirements.

ECON 234. The Economics of Race and Gender.
Cr. 3. Investigates the employment gaps and earnings gaps that exist between women and men, and between various racial and ethnic groups in America. Economic analysis of discrimination and its consequences for individuals and families. May be used in partial fulfillment of the Social Analysis component and for the U.S. Diversity component of the General Education Requirements.

Cr. 3. A comparative analysis of political theories and the economic systems that derive from those theories. The course focuses on those ideological assumptions that result in capitalism, socialism, anarchism, etc. as the solution to economic problems. Prerequisite: consent of the instructor.

Cr. 3. A study of the theoretical concepts and analytical techniques which economists employ to interpret the process of resource allocation under various systems of economic organization. Prerequisite: ECON 221.

ECON 322. Intermediate Macro-Economic Theory.
Cr. 3. A critical examination of theories of national income determination and of techniques for measuring and analyzing aggregate economic activity. Prerequisite: ECON 222.

ECON 324. Managerial Economics.
Cr. 3. A course in applied economics which emphasizes the use of microeconomics, statistics and mathematics in the process of making managerial decisions. Using problems and short case studies, topics such as estimating demand, cost, productivity and pricing policies are discussed. Prerequisite: ECON 221.

ECON 325. Econometrics.
Cr. 3. The application of mathematical and statistical techniques to the analysis of economic issues. Development of simple and multiple regression as tools of analysis. Use of computer facilities and statistical programs to apply the tools to current economic data. Prerequisites: ECON 221 and 222, MATH 240 or IDS 205 or equivalent.

Cr. 3. A study of the basis for the gains from international trade including the effects of growth and development on a nation's welfare. Attention is also given to the effects of tariffs and other restrictions to trade. Balance of payments accounting, foreign exchange markets and international monetary institutions are covered during the last part of the course. Prerequisites: ECON 221 and 222.

ECON 330/530. Industrial Organization.
Cr. 3. The analysis of the economic factors underlying the structure, conduct and performance of American industry. Prerequisite: ECON 221.

ECON 331. Government Regulation of Business.
Cr. 3. A survey of government regulations of private business, monopoly and unfair competition with emphasis on health and safety regulations, consumer and environmental protection. Utilizing basic economic analysis, attention will be given to how regulation affects individuals and firms, the costs and benefits to society of regulation and the alternatives to the present approaches to regulation. Prerequisites: ECON 221 and 222.

ECON 333. Economics of Labor.
Cr. 3. The approach of workers and employers to the problems of labor: the development of trade unions and collective government regulation of labor relationships, and an economic analysis of wage-employment problems. Prerequisite: ECON 221.

Cr. 3. An examination of the regional and spatial characteristics of cities with emphasis on policies to correct urban problems. Transportation, housing, poverty and discrimination plus other substantive urban problems are analyzed and discussed. Prerequisites: ECON 221 and 222.

Cr. 3. An analysis of economic variables, both theoretical and institutional, which characterize developing nations. Emphasis is placed on cyclical poverty, allocation of resources and policy planning. Prerequisite: ECON 221 or 222 or consent of the instructor. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

ECON 337/537. Public Finance.
Cr. 3. An analysis of the role of the government sector in a market economy. Causes of market failure, the efficient provision of public goods and the effects of taxation are considered as they relate to economic activity. Prerequisite: ECON 221 or 222.

ECON 339/539. Money and Banking.
Cr. 3. A study of the institutions, principles and problems of money and banking in the United States. Special attention is given to the basic elements of monetary theory and policies. Prerequisite: ECON 222.

Cr. 3. The history of the economic development of the United States from the colonial period to the present.

ECON 365. Modern European Economic History.
Cr. 3. A history of the economic development of Western Europe from 1750 to the present. Emphasis is on the role of the industrial revolution and its impact on the modern person.

ECON 370. The History of Economic Thought.
Cr. 3. Economic thought in its historical development from the Mercantilists to the present day. Prerequisite: ECON 221 or 222 or consent of the instructor.

ECON 390. Topics in Economics.
Cr. 3. A course in which a special topic in economics is given intensive study. The topic varies from year to year. Prerequisites: ECON 221 and 222. Recommended for senior students.

Cr. 3. (Also offered as IDS 493) An intensive study of selected topics, methods, techniques, and problems in applied statistics. Prerequisites: IDS 340, ECON 325, or MATH 340.

ECON 495. Independent Study in Economics.
Cr. 1-3. Independent study to be approved by the Chair and the economics adviser.

ECON 497. Honors Work in Economics.
Cr. 3. See Honors Work, page 53.

ECON 498. Honors Candidacy in Economics.
Cr. 3. See Honors Work, page 53.
**Education**

**Licensure.** Students must meet state teacher licensure and education program requirements. The State of Indiana has developed a new licensure program; students entering Fall 2001 or later are considered under this new structure. Freshman students entering the University in Fall of 2003 have the options listed on page 50 of this catalog for teacher preparation programs leading to licensure.

All students who expect to obtain a teaching licence and have not been admitted to the Teacher Education Program should consult the Department of Education Office by completion of their freshman year to assure that licensure requirements will be met. Upon completion of the prescribed courses outlined by the Education Department does not guarantee that the student will be recommended for licensure or a teaching position.

For a listing of all programs offered see page 50.

** Majors.** Students who seek licensure as an elementary or middle level teacher complete the requirements of the Bachelor of Science in Education degree with a major either in Elementary Education or Middle Level Education.

**Complementary Major.** Students seeking high school licensure declare a complementary major in Secondary Education (second only to the primary major) with a primary academic major in another department. They will also have a teaching major. The two are not necessarily the same. The teaching major consists of the area of concentration leading to licensure and may include courses that do not apply to the academic major.

A teacher education adviser will be assigned to every secondary education student. See "Academic Advising" section on page 39.

Only students preparing to meet Adolescence/Young Adult (Secondary) Education licensure requirements are considered to be complementary majors in education. Students seeking such a license must register as a secondary education complementary major in the Registrar's Office before admission to Teacher Education. For specific requirements of a teaching minor, consult your education adviser.

**Early/Middle Childhood (Elementary Education)**

Completion of the degree requirements with a major in Elementary Education leads to the Bachelor of Science in Education degree. Undergraduate students who wish to teach in an elementary school should complete the requirements for this degree.

Course work must include the following:

1. **First Year Core** ........ 10 Cr.
   - CORE 110 ........ 5 Cr.
   - CORE 115 ........ 5 Cr.

2. **Academic Area Studies**
   - a. **Theology** .... 6 Cr.
     1) One foundational level
        Theology Course .... 3 Cr.
     2) One Upper Level
        Theology Course .... 3 Cr.
   - b. **Literature and Fine Arts** 9 Cr.
     1) ENGL 200 .......... 3 Cr.
     2) ED 200 ........... 3 Cr.
     3) Art appreciation, history,
        or methods .......... 3 Cr.
   - c. **Diversity: Global Cultures
       and Perspectives** 3 Cr.
      See point A.2 on page 44 for
      listing of courses.
   - d. **U.S. Cultural Diversity** 3 Cr.
      ED 370 Home, School and
      Community Relationships .... 3 Cr.
   - e. **History** .... 6 Cr.
      HIST 210 The World in the
      Twentieth Century .......... 3 Cr.
      HIST 220 or 221 U.S. History .... 3 Cr.
   - f. **Social Analysis** .... 3 Cr.
      One course from Economics,
      Geography, Political Science,
      or Sociology (See A.2 on page 44
      for list)
   - g. **Mathematics** .... 9 Cr.
      MATH 211 Laboratory in
      Elementary Mathematics .... 0 Cr.
      MATH 213 Mathematics for
      Elementary Teachers .......... 4 Cr.
      MATH 212 Laboratory in
      Elementary Mathematics .... 1 Cr.
      MATH 214 Mathematics for
      Elementary Teachers ....... 4 Cr.

Minimum grade of 'C' in mathematics courses.

- **Natural Science** ........ 8 Cr.
  1) BIO 125, 151, or 171 .... 4 Cr.
  2) One course from chemistry,
     astronomy, meteorology,
     geography, or physics (course
     must include a lab) .......... 4 Cr.

- **PE** 101-105 ........ 1 Cr.

3. **Other course requirements:**
   - a. **Oral Communication** .... 3 Cr.
      (one of the following):
      COMM 145 Interpersonal
      Communication
   - b. **Advanced Composition** 3 Cr.
      (one of the following):
      ENGL 300 Introduction to
      Professional Writing
      ENGL 321 Intermediate
      Composition
      ENGL 380 Topics in Writing
      ENGL 423 Short Story Writing
      ENGL 431 Advanced Composition
   - c. **ENGL 478** Literature for
      Children .......... 3 Cr.
   - d. **Conservation** .... 3 Cr.
      (one of the following)
      GEO 260 Conservation of Natural
      Resources
      BIO 250 Human Environmental
      Biology
   - e. **PSY 110** General Psychology 3 Cr.
   - f. **SPED 440** Learning
      Exceptionalities .......... 3 Cr.
   - g. **PE 289** Physical Education
      and Health Methods for Elementary
      Teachers .......... 2 Cr.

4. **Education** ........ 45 Cr.
   Must include ED 203, 204, 305, 321,
   322, 323, 324, 327, 328, 361, 370, ED
   439 or SPED 449, ED 466 and ED 485.

In addition to the above requirements, the student must present sufficient electives to earn the 124 credit hours required for graduation.

**Additional Teaching Content Areas.** Students who are interested in specific information about the requirements for additional content areas should contact the Education Department. Students may obtain an additional teaching content area in exceptional needs/mild intervention (Learning Disabilities, Mildly Mentally Handicapped, and Emotional/Behavioral Disorders).
Education

**Freshman** students are advised by a department adviser assigned by the Chair. Please consult the Student Guide to University Life for a sample course program.

A foreign language may be started in the freshman year by students who wish to concentrate in this area. Consult the adviser for adjustments in schedule.

**Sophomore** students should complete ED 203, 204, and COMM 145 or COMM 243 during this year. Application for admission to the Teacher Education Program should be made in the sophomore year at Checkpoint I. Students are encouraged to take ED 305 in the sophomore year.

**Junior** students who are admitted to the Teacher Education Program may take the Junior level courses ED 321, 322, 323, 324, 327, 328, 361, 370, and SPED 440. Please see your adviser to develop your program. Application for admission to Professional Semester for the next academic year must be filed by February 15 of the junior year.

**Middle Level Education (Middle School/Junior High School)**

Completion of the degree requirements with a major in Middle Level Education leads to the Bachelor of Science in Education degree. Undergraduate students who wish to teach in middle school/junior high school should complete the requirements for this major.

Course work must include the following:

1. **First Year Core** .................. 10 Cr.
   - CORE 110 .......................... 5 Cr.
   - CORE 115 .......................... 5 Cr.

2. **Academic Area Studies**
   a. **Theology** ......................... 6 Cr.
      - 1) One Foundational Level Theology Course ............ 3 Cr.
      - 2) One Upper Level Theology Course ................. 3 Cr.
   b. **Literature and Fine Arts 9 Cr.**
      - 1) ENGL 200 ......................... 3 Cr.
      - 2) ENGL 200 .......................... 3 Cr.
      - 3) Fine Arts .......................... 3 Cr.
      Elect from ART 101, 102, 311, 317, 318, 319, 320, 321, or 341.
   c. **Diversity: Global Cultures and Perspectives** ........ 3 Cr.
      See point A.2.d on page 44 for listing of courses.
   d. **U.S. Cultural Diversity** .......... 3 Cr.
      - ED 370 Home, School and Community Relationships .. 3 Cr.
   e. **History** ......................... 3 Cr.
      - HIST 220 or 221 U.S. History 3 Cr.
   f. **Social Analysis** .................. 3 Cr.
      One course from Economics, Geography, Political Science, or Sociology (See A.2.g on page 44 for list)
   g. **Mathematics** .................... 4 Cr.
      - MATH 211 Laboratory in Elementary Mathematics 0 Cr.
      - MATH 213 Mathematics for Elementary Teachers I 4 Cr.
      Minimum grade of "C" in mathematics courses.
   h. **Natural Science** ................. 8 Cr.
      1) BIO 125, 151, or 171 4 Cr.
      2) One course from chemistry, astronomy, meteorology, geography, or physics (course must include a lab) ........ 4 Cr.
   i. **PE 101-105** ..................... 1 Cr.
   j. **Other course requirements:**
      a. **Oral Communication** .......... 3 Cr.
         (one of the following):
         COMM 145 Interpersonal Communication
         COMM 243 Public Communication
      b. **Advanced Composition 3 Cr.**
         (one of the following):
         ENGL 300 Introduction to Professional Writing
         ENGL 321 Intermediate Composition
      c. **ENGL 479** ........................ 3 Cr.
      d. **ED 476** .......................... 3 Cr.
      e. **ED 475 and 478** ................. 6 Cr.
      Must include ED 203, 204, 205, 370, SPED 440, ED 460, 475, 478, and 485.
      5. **Content Area Concentrations:**
         36 credit hours. Candidates must contact the Education Department for a listing of courses required under the 18 credit hour content area selected. Choose two from the following four areas, each of which is a minimum of 18 credit hours:
         Language Arts
         Social Studies
         Science
         Mathematics
      6. **Additional Teaching Content Areas**
         Students who are interested in specific information about the requirements for additional content areas may also obtain additional teaching content area and exceptional needs; mild intervention (Learning Disabilities, Mildly Mentally Handicapped, and Emotional/Behavioral Disorders).
      7. **Freshman** students are advised by a department adviser assigned by the Chair. A sample course program follows:
         First Semester
         - CORE 110 The Human Experience .......... 5 Cr.
         - Biology or Physical Science ............. 4 Cr.
         - Social Analysis or U.S. History .......... 3 Cr.
         - SPED 440 General Psychology ............. 3 Cr.
         Second Semester
         - Core 115 The Human Experience .......... 5 Cr.
         - Biology or Physical Science ............. 4 Cr.
         - Social Analysis or U.S. History .......... 3 Cr.
         - ED 203 or 204 .......................... 2 or 3 Cr.
         - PE 101-105 ................................ 1 Cr.
         - ED 476 .................................. 3 Cr.
         - ED 475 and 478 ........................... 6 Cr.
         Sophomore students should complete ED 203, 204, and COMM 145 (or COMM 243) during this year. Application for admission to the Teacher Education Program should be made during the sophomore year at Checkpoint I.
      8. **Junior** students who are admitted to the Teacher Education Program may take the junior level courses ED 370, SPED 440, ED 460, 475 and 478. Please see your adviser to develop your program.
      Application for the Professional Semester for the next academic year must be made by February 15 of the junior year.
      Senior students must set aside one full semester for student teaching.

**Secondary Education (Adolescence/Young Adult)**

Students seeking to teach in a high school must major in one of the content areas listed on page 50 and approved for licensure.

**Advising.** Before admission to the Teacher Education Program, high school teacher candidates must register as a secondary education complementary major with the Registrar’s Office, and consult the Education Department Office concerning programs leading to recommendations for teacher licensure. A secondary education adviser will be assigned. Students should regularly consult both advisers prior to registration each semester.

**Requirements.** Undergraduate students preparing to obtain a high school license should complete requirements for appropriate degrees in their academic majors as well as those for the teaching major.

**General Education Requirements.** Students must meet the requirements below in addition to the University general education requirements for the degree in their major.

1. Oral communication (COMM 145 or COMM 243), 3 credits.
2. PSY 110, 3 credits (or PSY 110 and 111, 4 credits, if this course is to be used to meet the University's 12-credit natural science requirement).
3. Students who transfer in and do not take CORE 110 and CORE 115 must have 6 credits of composition or other writing courses, and a course in history (3 credits).

**Professional Education Requirements.**

1. **Freshman/Sophomore level courses:**
   - ED 203, 2 Cr.
   - ED 204, 3 Cr. (PSY 110 is a prerequisite)
   - ED 305, 2 Cr.

2. **Formal application and admission** to the Teacher Education Program as soon as possible in the sophomore year (see below).
3. Junior level courses:
   ED 370 .................................. 3 Cr.
   SPED 440 .................................. 3 Cr.
   ED 457 .................................. 3 Cr.
   ED 460 .................................. 3 Cr.
   ED 489 .................................. 3 Cr.
   ED 495, Special Content Methods courses are only offered once a year. It must be completed prior to the professional semester. Check with the major adviser concerning when this course is offered.

4. Formal application for admission to the Professional Semester must be filed by February 15 of the year before the academic year in which the Professional Semester is to be taken.

5. Senior level courses:
   Professional Semester: ........ 15 Cr.
   ED 459 .................................. 12 Cr.
   ED 485 .................................. 3 Cr.

Content Area Concentration. A content area concentration is required of all high school teacher candidates. Note that a content area concentration is not the same as an academic major in that it may have additional requirements.

Additional Teaching Content Area Concentration in Special Education. Students completing the requirements for any high school content area may obtain additional teaching content area in exceptional needs: mild intervention (Learning Disabilities, Mildly Mentally Handicapped, and Emotional/Behavioral Disorders). Additional coursework is necessary to satisfy the requirements for this extra content area. However, in most cases, the requirements can be completed in a four-year program. Students who are interested in specific information about the requirements for the exceptional needs (mild intervention) content area should contact the Education Department.

THE TEACHER EDUCATION PROGRAM

Admission. To be admitted to the Teacher Education Program, a student must submit an application to the Education Department. This application should be submitted after completion of ED 203, ED 204, and COMM 145 (or 243) and when all other admissions criteria have been fulfilled. Admission to the program will include the first of three checkpoints in the performance assessment process. Artifacts for INTASC Standards 2, 5, and 9 will be assessed at this time. Students may obtain the application packet in ED 203 or from the Professional Development and Placement Office. Students must complete the application process and be aware that this process may take one semester. Action on each application is based on the following criteria:

1. Grade point average. An applicant must have a grade point average of 2.50 or higher in all course work taken at Valparaiso University, a minimum of 12 credit hours at this University, and at least 2.00 in each required course taken in the Education Department.

2. Communication grade point average. An applicant must have obtained a grade point average of 2.5 or better in CORE 110, 115, and COMM 145 (or 243). No course may be used to meet the major adviser concerning when the Professional Semester must be offered once a year. It must be completed prior to the professional semester. Check with the major adviser concerning when this course is offered.

3. Basic Skills Test. Applicants to the Teacher Education program must furnish passing scores on the Pre-Professional Skills Test (PPST). These basic skills tests in reading, writing and mathematics are administered at national testing sites, including Valparaiso University, eight times during the academic year. Students are responsible for registering and paying the fees for the test. Students are also responsible for designating that scores be sent to the Education Department. Allow a minimum of six weeks for scores to be reported. Students must submit passing scores that are higher than Indiana minimum state requirements. Information about test registration and administration will be furnished to students at a Teacher Education information meeting or during the courses taken in the sophomore year or from the Professional Development and Placement Office.

4. Health. An applicant shall be free of serious mental or physical health problems that might impair teaching effectiveness.

5. Character/Dispositions. An applicant must demonstrate in all classes the social and emotional maturity, moral character, responsibility and professional dispositions necessary for success in the teaching profession. Students' dispositions are formally assessed at three checkpoints and informally assessed throughout the program by stakeholders.

6. Recommendations. Positive recommendations need to be obtained from the ED 203 instructor and the student's major adviser. A third recommendation must also be received from a field experience cooperating teacher.

7. Declared Major or Complementary Major. All students who seek teacher licensure through an undergraduate degree must declare one of the following majors in the Office of the Registrar prior to admission to the Teacher Education Program: Elementary Education, Middle Level Education (both within the Bachelor of Science in Education degree), or a complementary major in Secondary Education (second only to the primary degree that houses the content area to be taught).

8. Attend Portfolio Seminar. Seminars will be offered to inform students of the portfolio assessment process.

9. Submit INTASC Artifacts. Submit artifact correlated to INTASC Standards 2, 5, and 9 to the Admission and Retention Committee for review. Note: The department has an alternate admissions policy. See your adviser for information.

To appeal a decision of the Admissions and Retention Committee, the student should first direct his/her petition to that Committee in writing; if the decision is still unfavorable, the appeal should be submitted in writing and directed to the Education Department faculty through its Chair, who presents it to the education faculty for consideration.

Admission to the Professional Semester. Application for admission to the Professional Semester must be completed and filed with the Professional Development and Placement Office before February 15 of the Spring Semester before the academic year in which the professional semester is to be done. For admission into the Professional Semester, the student must meet the following criteria:

1. Official admission to the Teacher Education Program.

2. The cumulative grade point average must be at least 2.50. A grade point average of 2.40 or better must be obtained in all secondary teaching fields.

3. Continued demonstration of effective oral and written communication. The applicant must have obtained a grade point average of 2.5 or better in courses used to meet this requirement.

4. Student teaching. The applicant must be within two semesters and one summer of graduation.

5. Evidence of the social and emotional maturity, moral character, responsibility and professional dispositions necessary for success in the teaching profession.

6. Admission to the Professional Semester will include Checkpoint II in the performance assessment process. Checkpoint II will include artifacts from INTASC Standards 1, 3, 4, 6, 7, 8, and 10 as well as a personal statement about the candidate's understanding of the conceptual framework.

7. Elementary School student teaching candidates must have earned a standing of 2.40 or higher in all course work in education. Students must complete the following courses before the Professional Semester: ED 203, 204, 305, 321, 322, 323, 324, 327, 328, 370 and SPED 440.
8. Middle School/Junior High teacher candidates must have completed ED 203, 204, 305, 370, SPED 440, ED 460, 478, 485, and earned a standing of 2.40 of higher in all ED courses completed.

9. Adolescence/Young Adult (I High School) student teaching candidates must have completed ED 203, 204, 305, 370, 457, 460, 489, SPED 440, and have earned a standing of 2.40 or higher in all education courses completed and have received a written recommendation from the major adviser to take the Professional Semester. If a teaching minor is to be obtained, written recommendations from the Chair of the department in which the minor is taken must be received. Students are strongly urged to take or audit the Special Methods 489 course in the teaching minor area.

10. Obtain a "C" or better in the professional education course (ED 485) taken prior to student teaching in the professional semester to be eligible to begin supervised teaching.

11. To be eligible for recommendation for licensure, students must maintain the above requirements through the completion of the degree and the teacher education program.

Professional Semester. This semester is required for candidates who wish to be recommended for an initial teaching license. This semester includes coursework and student teaching required to meet standards for licensure. During this semester the student should enroll only in courses approved for the Professional Semester. At the end of the Professional Semester students will be expected to submit a performance portfolio, including all 10 of the INTASC Standards for Checkpoint III. Artifacts will be primarily based upon student teaching experience and will include domains of the conceptual framework.

Placement of Teacher Candidates for Field Experiences/Student Teaching. The Teacher Education Program involves coursework that require field experiences. The placement and direction of all practicum experiences are the responsibility of the Professional Development and Placement Office.

Teacher candidates cannot receive any compensation while receiving University course credit.

An Indiana limited criminal background check is required annually prior to the first day of fieldwork/student teaching. An Indiana Limited Criminal History background check may be obtained electronically through the Department Office for a slight fee. Discovery of a criminal record may delay placement of the field assignment. Also, students are responsible for arranging their own transportation to assigned schools.

Placement of Graduating Teachers. The Professional Development and Placement Office gives assistance to beginning and experienced teacher candidates who have completed requirements for licensure. All candidates are encouraged to file their credentials with this office before graduation.

Students who complete their education at Valparaiso University are entitled to use the placement services at no cost until September 30 after completion of the licensure program. A twenty dollar fee is charged per year if a teacher candidate wishes to use the placement service after this time.

**EDUCATION COURSES**

**ED 103. Introduction to Teaching and Field Experiences.**
Cr. 3. For qualified high school juniors and seniors in approved cadet teaching programs in Northwest Indiana school corporations who wish to explore teaching as a vocation. An introduction to the teaching profession, with field experience that will give students opportunities to observe and assist professionals teaching at various developmental levels. Coursework will orient students to various aspects, opportunities, and requirements of the profession, will introduce them to state and national standards of teaching and learning, and will look at the past as well as the future of K-12 education. A 40-clock hour field experience in an elementary, middle, or high school, or some combination of the three, is required.

**ED 203. Introduction to Teaching and Field Experience.**
Cr. 2. For teacher education students and those who wish to explore teaching as a career. Includes an introduction to the teaching profession, what it takes to become a teacher, the role of teachers, standards that govern education, and an introduction to the summative portfolio process inherent in the department's teacher education programs. A 40-clock hour field experience in an elementary, middle, or high school is required.

**ED 204. Educational Psychology.**
Cr. 3. A study of psychological research and theory related to child and adolescent development and the learning process. Prerequisite: PSY 110.

**ED 305/505. Computers in Education.**
Cr. 2. An introductory course designed to prepare teachers to use the computer as an educational tool. Students will learn how to integrate educational technology into the classroom curriculum as they become proficient in using various media to support student learning. Will include multimedia authoring tools, presentation software, web-based instruction, and curriculum applications.

**ED 370. Home, School, and Community Relationships.**
Cr. 3. This course will focus on the relationships within K-12 schools in a diversity of school settings with emphasis on cultural and socio-economic issues. Forty (40) hours of off-campus activities will include field experiences focusing on educators' interpersonal relationships within school communities. All students admitted to the teacher education program must take this course. May be used by education majors to fulfill the U.S. Cultural Diversity component of the General Education Requirements. Prerequisite: ED 203. Corequisite or prerequisite: ED 204.

Note: No student is admitted to any course other than ED 203, ED 204, ED 305, or ED 370 unless admitted to the Teacher Education Program or permitted to do so by the Admissions and Retention Committee of the Education Department or the Chair of the Education Department.

**ED 321. Principles of Elementary Education.**
Cr. 2. This course is designed to (1) study the organization of instruction, classroom assessment, management and diversity, (2) consider the elementary classroom from varied perspectives and (3) reexamine the purposes of education, schooling, instruction and the role of the professional teacher. Includes a field component. Prerequisite: Admission to Teacher Education. First offered Fall 2003.

**ED 322. Methods of Teaching Language Arts in the Elementary School.**
Cr. 2. A detailed study of the English Language Arts. Students demonstrate knowledge, understanding, and competence in the teaching of listening, speaking, reading, writing, viewing, and visually representing. Technological and information gathering resources will also be addressed. Includes field component. Prerequisite: Admission to Teacher Education. First offered Spring 2004.
Cr. 12. In this course each student is assigned to an elementary school classroom under the direction of a cooperating teacher and University field instructor. The field experience includes a minimum of twelve weeks during the semester of full-time classroom observations, classroom teaching and related activities. Prerequisites: senior standing and concurrent enrollment in the Professional Semester. See Admission to the Professional Semester above for conditions of eligibility. Students enrolled in this course may not carry a load of more than 15 credit hours. S/U grade. Corequisite: ED 465.

Cr. 3. A study of the understandings, knowledge, and skills necessary for effective secondary school teaching. Topics addressed are curriculum development, instructional planning, classroom management, the student-teacher interaction, methods and strategies of instruction. Students reflect on their own teaching and learning experiences and observations of current practices as they begin to formulate their own teaching philosophies. This course should be taken before ED 489 and must be taken before student teaching. A field component is required. Prerequisite: Admission to Teacher Education.

Cr. 12. Each student is assigned to a secondary school for laboratory experiences in teaching, which includes at least twelve (12) weeks of full-time classroom observation, teaching and related activities. Prerequisite: Admission to the Professional Semester. (See Admission to the Professional Semester above for conditions of eligibility.) Students enrolled in this course may not carry a load of more than 15 credit hours unless obtaining permission from the Chair of the Education Department. S/U grade. First offered Fall 2004. Corequisite: ED 465.

ED 460/560. Reading in the Content Areas.
Cr. 3. This course includes readings, experiences, writing opportunities, and discussions which lead to an understanding of literacy, the reading process, and the critical role language plays in the learning process. Students gain knowledge of specific assessment technologies, processes, methods for planning instruction, and a range of reading, writing, and study strategies appropriate for helping pupils read to learn. Prerequisite: Admission to Teacher Education.

ED 466/566. Literacy: Diagnostic Assessment and Instruction.
Cr. 4. This course emphasizes appropriate reading curriculum based on formal and informal assessments. Included in the course are organization and planning instruction to meet the needs of all students. A field component is included. Prerequisite: ED 325 and Admission to Teacher Education. First offered Spring 2004.

ED 473. Teaching and Learning for Early Adolescence Generalist Candidates.
Cr. 3. A study of the human developmental characteristics of early adolescents, organization of schooling, and developmentally responsive curriculum in middle level education settings. This course is taken concurrently with ED 478 during a block semester structure. Classes will be conducted at both the University campus and on-site in a partner school setting. Prerequisite: admission to the Teacher Education Program. Corequisite: ED 478. First offered Fall 2003.

ED 475. Teaching and Learning for Early Adolescence Generalist Candidates.
Cr. 3. A study of the human developmental characteristics of early adolescents, organization of schooling, and developmentally responsive curriculum in middle level education settings. This course is taken concurrently with ED 478 during a block semester structure. Classes will be conducted at both the University campus and on-site in a partner school setting. Prerequisite: Admission to Teacher Education. First offered Fall 2003.

ED 478. Integrated Curriculum with Special Methods for Middle Level Education.
Cr. 6. This course will address pedagogy and curricula unique to middle level education. Special emphasis will be on developmental needs of emerging adolescents, organization of curricular and curricular designs within middle schools. Course content will be guided by developmental and curricular standards developed by the National Middle School Association and modeled by the Indiana Professional Standards Board. This course is taken concurrently with ED 473 within a block semester structure. Theory and cognitive knowledge will be put into practice in the required field experience component. Prerequisite: Admission to Teacher Education. First offered Fall 2004.

ED 486/586. Honors Work in Education.
Cr. 3. See Honors Work, page 53. Prerequisite: Admission to Teacher Education.
SPED 347/547. Characteristics of Individuals with Mild Disabilities.
Cr. 3. This course is designed to provide information on academic, cognitive, social, behavioral, and emotional characteristics of individuals with mild disabilities (emotional/behavioral disorders, learning disabilities, and mental retardation). Topical include federal and state laws governing special education since 1970; processes involved in identifying students as having one of the disabilities considered "mild"; specific characteristics of students who have mild disabilities in cognitive, academic, behavioral or social/emotional areas; characteristics of various education service delivery systems; and interventions for students with mild disabilities in grades 1-6. Required of all students regardless of the year first enrolled at Valparaiso University.

SPED 348. Observation of Individuals with Mild Disabilities.
Cr. 1-2. Teacher candidates will complete a series of structured observations in special education settings serving students with mild disabilities at a particular developmental level. Teacher candidates will complete various assignments, including direct observation of students with mild disabilities, interviews with various personnel, directed reflections on special education service delivery models, and surveys of the usage of various forms of technology utilized by special education personnel and students. Teacher candidates will complete the remainder of this 40 clock hour experience tutoring students with mild disabilities under the guidance of a cooperating teacher. Corequisite: SPED 445 or consent of Chair of the Department. Two (2) credit course (80 clock hours) required of students entering Valparaiso University before Fall 2001; one (1) credit course required of students entering Fall 2001 or later.

SPED 440/540. Learning Exceptionalities.
Cr. 3. A course that introduces special education laws passed since 1970 that govern the provision of current special education services for students with various disabilities, the characteristics of students with disabilities, instructional and classroom practices associated with educating these students in multicultural and least restrictive environments, and basic techniques for education professionals to work together with parents and students. Prerequisite: admission to the Teacher Education Program. Required of all students, regardless of what year first enrolled at Valparaiso University.

SPED 444. Assessment in Special Education.
Cr. 3. Course is designed to develop test administration and test interpretation skills in teacher candidates for types of tests used in the identification of various disabilities and tests used to plan instruction programs. Psychometric properties of tests are also addressed. Tests/types of assessments addressed in this course include intelligence tests, achievement tests, adaptive behavior and other behavior rating scales, psychological process tests, learning capacity and aptitude instruments, observational assessment, and curriculum-based assessment. Prerequisite or corequisite: SPED 347 or consent of Chair of the Department. Required of all students, regardless of what year first enrolled at Valparaiso University.

SPED 445. Teaching the Student with Mild Disabilities.
Cr. 3. This course provides teacher candidates with knowledge of various compensatory, corrective, and remedial instructional strategies in curriculum areas included in grades 1-6 including reading/language arts, mathematics, content areas, and social and behavioral skills. Course experiences emphasize effective, research-based teaching methods, diagnostic-prescriptive teaching techniques, and individual education planning for students with mild disabilities (emotional/behavioral disorders, learning disabilities, mental retardation) at this developmental level. Prerequisite: SPED 347. SPED 444 is either a prerequisite or corequisite. Corequisite: SPED 446A (beginning Fall 2003). Students first enrolled at Valparaiso University prior to Fall 2001 take this course for 4 credits and it will address grades 1-12. Students first enrolled at Valparaiso University Fall 2001 or later take this course for 3 credits and it will only address grades 1-6 (first offered Fall 2003).

SPED 446A. Teaching Practicum with Individuals with Mild Disabilities.
Cr. 1. This 40 clock hour practicum will give special education teacher candidates the opportunity to practice skills and performance required of special educators related to the instruction of early/middle childhood students with mild disabilities in assessment to plan instruction, developing academic goals/objectives/benchmarks, and delivery of effective instruction to early/middle childhood students with mild disabilities. Corequisite: SPED 445. Required of students entering Valparaiso University Fall 2001 or later. First offered Fall 2003. Required for teaching elementary level special education students with mild exceptional needs.

SPED 446B. Teaching Practicum with Individuals with Mild Disabilities
(Grades 6-9).
Cr. 1. This 40 clock hour practicum will give special education teacher candidates the opportunity to practice skills and performances required of special educators related to the instruction of early adolescent students with mild disabilities in assessment to plan instruction, developing academic goals/objectives/benchmarks, and delivery of effective instruction to early adolescent students with mild disabilities. Corequisite: SPED 489. Required of students entering Valparaiso University Fall 2001 or later and who want to be licensed to teach middle school special education mild exceptional needs. First offered Fall 2003.

SPED 446C. Teaching Practicum with Individuals with Mild Disabilities
(Grades 9-12).
Cr. 1. This 40 clock hour practicum will give special education teacher candidates the opportunity to practice skills and performance required of special educators related to the instruction of adolescent/young adult students with mild disabilities in assessment to plan instruction, developing academic goals/objectives/benchmarks, and delivery of effective instruction to adolescent/young adult students with mild disabilities. Corequisite: SPED 489. Required of students entering Valparaiso University Fall 2001 or later and who want to be licensed to teach high school special education mild exceptional needs. First offered Fall 2003.

SPED 449. Supervised Teaching in General and Special Education.
Cr. 12. This course combines into one semester the experience of observation, classroom teaching, and participation in related early/middle childhood, early adolescent, adolescent/young adult general in special education settings. Under the direction of the cooperating teachers and University field instructors, the teacher candidate will have appropriate experiences at a particular developmental level in both general and special education setting. Prerequisites: senior standing, SPED 445 or 489, SPED 446 and admission to the Professional semester. S/U grade. Required of all students regardless of entry year. Corequisite: ED 485S or ED 488.

SPED 450/550. Models of Collaboration and Consultation in Special Education.
Cr. 3. The provision of effective services for students with disabilities requires school-based professionals to work with each other, parents, and the students themselves. This course is designed to address the knowledge, skills, and dispositions required of education professionals in the collaborative delivery of these services in various educational settings. Topics include models of collaboration and consultation, skills required for effective collaboration and consultation, conflict management, and

SPECIAL EDUCATION COURSES
Course work required in special education content area will vary according to what year a student first enrolled at Valparaiso University. Because of changes in licensing in Indiana, some courses are only required of students who entered Valparaiso University Fall 2001 or later. See notes with individual courses for who must take these courses.
Cr. 3. Many students with mild disabilities exhibit social, learning, and/or behavioral problems that must be addressed in order to provide the students with appropriate educational programming. This course will provide education professionals with knowledge and experiences assessing behavior through behavioral observation, diagnostic interview, prescriptive behavior assessment, and functional analysis. Course experiences emphasize the integration of research-based teaching techniques, diagnostic-prescriptive teaching techniques, and individual education/behavior transition planning for adolescents and young adults with mild disabilities (emotional/behavior disorder, learning disabilities, and mental retardation). Prerequisite or corequisite: SPED 444, corequisite: SPED 446. Required of any student first enrolled at Valparaiso University Fall 2001 and later; and who wants to be licensed to teach middle school and/or secondary students with mild exceptional needs. First offered Fall 2003.

SPED 490/590. Current Problems in Special Education.
Cr. 1-3. An intensive study of an area of special education. Subtitles, amount of credit and content depend on instructor's choice and student interest.

SPED 495. Independent Study in Special Education.
Cr. 1-3. Independent work to be done in a specific area of special education as agreed upon by the student and faculty adviser. Proposals must be approved before registration by the Chair of the Department.

English

Professors Byrne, Feaster, Juneja, Sponberg, Uehling (Chair), Wangerin; Associate Professors Mullen, Ruff, Sandock; Assistant Professors Bond, Burow-Flak, Hanson, Owens (Visiting); instructor Rivers-Parroquin.

The English Department offers a variety of courses for both English majors and other students. These courses help students to use the English language maturely and sensitively and to develop their capacities to enjoy and understand imaginative literature. Many non-English majors enroll in upper division courses and students can expect any class to display a spectrum of interests and backgrounds. Relatively small class size allows students to cultivate a close relationship with professors and to ripen their analytical and expressive skills through writing and discussion. In addition to preparing a student for graduate work or for teaching in secondary schools, an English major provides an excellent qualification for numerous careers and professions. Many schools of medicine, law and theology view an English major as highly desirable for acceptance into their programs. Business and government employ English majors for positions in human resources, sales and marketing, public relations, systems analysis and advertising, as well as editing and writing. The abilities to read and understand complex material, to write and speak precisely, to think clearly, thoroughly and subtly remain in high demand.

All students with an interest in literature are invited to join the English Society. Students of exceptional merit earn membership in Sigma Tau Delta, a national honor society, and may qualify for departmental scholarships. English elementary and secondary education majors may join the Valparaiso University affiliate of the National Council of Teachers of English.

Major. A major requires a minimum of 27 credit hours in English courses beyond ENGL 200 and numbered 300 or above. Courses must include ENGL 408 and 493; one course selected from 409, 410, 420; one from 430, 450, 456; one from 460, 470, 475; and either 401 or 402.

Minor. A minor requires a minimum of 15 credit hours in English courses beyond ENGL 200 and numbered 300 or above. Courses must include either ENGL 408 or 493; one course selected from 409, 410, 420; one selected from 430, 450, or 456; one selected from 460, 470, 475; and either 401 or 402.

Minor in Writing. Students who elect a minor in writing must complete a total of at least 15 credit hours in writing or language-related courses. Courses must include ENGL 300 or 301; 491 or 492. Additional courses may be selected from the following: ENGL 321, 380, 432, 424, 431, 441, 442, 443, TTVA 252, COMM 230. Students who take both ENGL 321 and 431 must take 321 first. In some instances, students may apply internships and cooperative education toward fulfillment of requirements for the minor in writing.

Diversity in Literature. The English Department affirms the significance of writing by people of color and other ethnic or minority groups and regularly includes it in literature and writing courses. In addition the Department offers specific topics courses especially focused on this writing and designed to fulfill the U.S. Cultural Diversity Requirement which provide an overview of American ethnic literature. Representative topics include American Ethnic Literature and African-American Writing.

Credit by Examination. Credit for ENGL 100 may be earned through the College Level Examination Program general examination in English or the subject area examination in English Composition, or through the Advanced Placement Examination offered by the College Entrance Examination Board. Credit for ENGL 200 may be earned through the College Level Examination Program subject examination in Analysis and Interpretation of Literature or through the Advanced Placement examination offered by the College Entrance Examination Board.
Degree. Completion of the degree requirements of the College of Arts and Sciences with a major in English leads to the Bachelor of Arts degree.

Approval of Schedules. All students declaring a major or a minor in English should make an appointment with the Chair of the Department. Students should bring their cumulative grade reports (from the Registrar’s Office) and their current adviser’s files. The Chair will explain the offerings and programs of the Department and give each student a bulletin which explains courses and faculty in more detail than is possible in this catalog.

All students taking a major or minor in English must have their schedules approved by their English advisers at registration. This consultation assures students of places in courses they need and contributes to orderly progress toward the degree.

Advising. The Chair of the Department will introduce all students to the professors who will be their advisers as long as they remain majors in the Department. It is the student’s responsibility to confer regularly with the adviser about course selection, career planning and related matters. It is the adviser’s responsibility to help the student make a frank and realistic assessment of academic options and their consequences.

Cooperative Education. When it will clearly enhance their academic education, qualified students may engage in paid work experiences through which they may also earn credit. No more than six credits may be applied toward the minimum major requirements. All projects must receive prior approval from the Department Chair and must be monitored by a member of the English Department Faculty. A report from the sponsoring agency is required, as well as a written report by the student. For further information, refer to Cooperative Education, College of Arts and Sciences, page 54.

Topics Courses. Courses in English marked by an asterisk (*) may vary in content and in writers assigned, depending on the instructor and the year given. Such courses may be taken twice for credit, provided that the topics are different or that there is no significant overlapping in the reading lists.

ENGL 100. College Composition.
Cr. 3. An intensive course in the writing of expository and argumentative prose with emphasis upon written organization, the logical progression of thought and the effective use of language.

ENGL 101. English for International Students.
3+1, Cr. 3. A course in English grammar and basic composition skills open only to students whose native language is not English.

ENGL 200. Literary Studies.
Cr. 3. Core readings are based on several major units corresponding to significant periods of literary history. Presented with their historical setting and augmented by numerous shorter pieces, these readings build on and extend students’ awareness of their cultural tradition. The course provides instruction and practice in the writing of careful critical analyses of texts. Prerequisite: CORE 110 and 115.

ENGL 231. Film Aesthetics.
Cr. 3. This course considers the possibilities and limitations of aesthetic valuation of film. Films are studied intensively from the viewpoint of narrative technique, image, camera movement, sound, social ideology and history. The significance of aesthetic impact is weighed against ethical issues. Representative films studied are Reniér’s Rules of the Game, Ford’s The Searchers and Riefenstahl’s Triumph of the Will. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

Note: CORE 110 and 115 and ENGL 200 or equivalents are prerequisites for all literature and language courses numbered 365 or above; CORE 110 and 115 are the prerequisites for other writing courses (ENGL 300, 301, 321, 380, 423, 424, 431, 491, 492).

ENGL 300. Introduction to Professional Writing.
Cr. 3. This course offers a detailed study of writing and speaking practices for effective communication in business, industry, the profession, and not-for-profit organizations. It combines analysis and praxis in composing and executing various messages in formats including letters, memos, reports, proposals, and oral presentations. It also emphasizes audience analysis, organizational strategies and motivational appeals, style and language choice, format and appearance. Current issues include communication ethics, intercultural communication, electronic communication technologies in the workplace.

ENGL 301. Introduction to Creative Writing.
Cr. 3. This course examines the process and product of creative writing. Topics include stages of creative writing from invention and imagination to description and dramatization. Attention focuses on the elements of fiction, poetry, drama, nonfiction and their forms, their differences and the reasons for distinguishing among them; and the ways in which they have contributed to one another as boundaries between them have blurred. Students will practice writing in the various genres. Assignments also address issues such as the relations of authors’ autobiographies to their art, and the need to craft concrete metaphors to represent abstract ideas.

ENGL 321. Intermediate Composition.
Cr. 3. Students examine and practice procedures common to all kinds of academic and professional writing. Particular attention is given to editing, revising, and evaluating prose forms. Not open to students who have taken ENGL 431.

Cr. 3. A study of a significant movement in American literature, such as Transcendentalism, Romanticism, Naturalism and Realism, or a group of writers related regionally, ethnically or in some other special way.

ENGL 380/580. Topics in Writing.
Cr. 2-3. An open topics course, which may involve intensive writing in a particular genre, for example, the personal essay, dramatic poetry, longer fiction) or writing for a particular audience (for example, writing for children and young adults).

ENGL 386. Internship in English.
Cr. 1-3. Students gain experience working for organizations or agencies in which skills in effective writing, critical thinking, or literary scholarship are essential. A written report is required. Prerequisite: approval of the Chair of the Department.

ENGL 389. Teaching English to Speakers of Other Languages.
Cr. 3. A study of methods of teaching English to all ages of speakers of other languages. Topics include basic concepts of language learning, methods of teaching basic skills, preparation of teaching materials, means of assessing progress. Principles are applied in a concurrent practicum. Prerequisite: CORE 110 and 115.

ENGL 390/590. Topics in Literature.*
Cr. 2-3. An open-topic course, which may concern a single writer or group of writers; a literary type or theme (e.g., Politics and Literature, Novel of Social Criticism, Sacred Tales, Black Spiritual Narratives); a contemporary art form (e.g., Contemporary Poetry); or an aspect of modern popular culture (e.g., Fiction of the Vietnam War).

ENGL 401. American Literature I.
Cr. 3. A study of selected works of major American writers (including minority and women writers) from the Colonial period to the Civil War.

ENGL 402. American Literature II.
Cr. 3. A study of selected works of major American writers (including minority and women writers) from the Civil War to the present day.

ENGL 408. Themes and Research.
Cr. 3. Designed to give students practical experience in the theories and methods of modern literary scholarship and criticism. The course aims to acquaint students with the presuppositions about literature which underlie critical writing and thus to provide standards for evaluating critical and scholarly works. It also provides intensive training in the analysis of literary texts. Required for English majors.

ENGL 409/509. Literature of the Medieval Period.
Cr. 3. A survey of medieval English lyric, ballad, narrative, drama, and romance (including Chaucer), with attention to intellectual, religious, and social backgrounds.

ENGL 410/510. Shakespeare.
Cr. 3. Close readings of representative plays: histories, comedies and tragedies.

ENGL 420/520. Literature of the Sixteenth and Seventeenth Centuries.
Cr. 3. An intensive survey of the poetry, prose, and drama of the English Renaissance, excluding Shakespeare, with attention to the historical and cultural backgrounds of the period. Representative writers may include More, Sidney, Spenser, Jonson, Donne, and Milton.

ENGL 423. Short Story Writing.
Cr. 3. A workshop in the various techniques of writing short fiction. English majors, as well as other students, may take this course on the S/U basis.

ENGL 424. Poetry Writing.
Cr. 3. A workshop in the various techniques of writing poetry. English majors, as well as other students may take this course on the S/U basis.
**ENGL 430/530. Literature of the Restoration and Eighteenth Century.**
Cr. 3. A survey of British poetry, prose, and drama from 1660-1785, with attention to the historical and cultural background of the period. Representative writers may include Dryden, Swift, Pope, Fielding, Johnson, and Sheridan.

**ENGL 431. Advanced Composition.**
Cr. 3. A course for students who have mastered fundamental writing skills and are prepared to study and practice the writing process in a more sophisticated and rigorous fashion. The course considers how to generate and organize ideas, how to adapt writing to various audiences and purposes, and how to revise, edit, and polish writing components of a developing and mature style.

**ENGL 441/541. History of the English Language.**
Cr. 3. An introduction to the development of modern English from Indo-European with emphasis upon structure and vocabulary.

**ENGL 442/542. Modern English Grammar.**
Cr. 3. An introduction to recent linguistic developments such as structural grammar and transformational-generative grammar.

**ENGL 443/543. Introduction to Linguistics.**
Cr. 3. An introduction to the theory and methodology of linguistics. The course includes descriptive and historical linguistics, basic notions of grammatical theory and exploration of some of the relations of linguistics to other branches of knowledge. The presentation of general principles is supplemented by practical problems in linguistic analysis.

**ENGL 450/550. British Literature of the Nineteenth Century.**
Cr. 3. A survey of British poetry and prose of the Romantic and Victorian eras, with reference to the context of British and European social and political history. Major writers may include Wordsworth, Coleridge, Keats, Hazlitt, Scott, Carlyle, Tennyson, Browning, Arnold, Dickens, Newman, and Hardy.

**ENGL 456/556. The Novel.**
Cr. 3. A study of representative English novels of the eighteenth and nineteenth centuries, with discussion of the social background.

**ENGL 460/560. Twentieth Century Drama.**
Cr. 3. A study of plays typical of the various phases of the development of British and American drama after 1890, with some attention to related Continental drama.

**ENGL 470/570. Twentieth Century Fiction.**
Cr. 3. Readings of representative works of the most important British and American novelists of the twentieth century, with emphasis on various theories of fiction dominant during the period.

**ENGL 475/575. Twentieth Century Poetry.**
Cr. 3. Readings in selected modern poets and their forerunners, especially the French Symbolists. The British and American poets included may range from Yeats and T.S. Eliot to Auden, Robert Lowell and other contemporary figures.

**ENGL 478. Literature for Children.**
Cr. 3. A survey, by types, of distinguished literature for children, with emphasis on developing analytical and evaluative techniques. Introduction to bibliographical aids, review media and research. Required of elementary education majors.

**ENGL 479/579. Literature for Adolescents.**
Cr. 3. A survey, by types, of distinguished literature suitable for students in secondary schools. Emphasis on the reading of selected books representing the wide range of literature for adolescents, and the developing of analytical and evaluative techniques. Introduction to bibliographical aids, review media, and current research in the field.

**ENGL 481. Cooperative Education in English I.**
Cr. 0.5-3. Professional work experience which clearly augments the student's classroom education. Written report required. Prerequisite: approval of the Chair of the Department.

**ENGL 482-483. Cooperative Education in English II-III.**
Cr. 0.5-3. Continuation of ENGL 481. Prerequisite: ENGL 481. May be repeated beyond 483 for additional credit.

**ENGL 489. The Teaching of English.**
Cr. 3. (See ED 489.) A study of methods of teaching English in secondary school. Prerequisite: admission to Teacher Education. A field component is required. This course may not be counted toward a major or minor in English.

**ENGL 491/591. Seminar in Professional Writing.**
Cr. 3. Students will reflect critically on the meaning of certain writing tasks in the cultures of working society. They will become more rigorously aware of such topics as the ethics of marketing strategies as applied to writing projects and assignments. They will learn enough about a subject to write not only exploratory but editorial and opinion pieces about it. Attention also will focus on the techniques, problems, and strategies of grant writing, editing the writing of others, and association publishing. Prerequisite: ENGL 300 or 321 or 431 or approval of the Chair of the Department.

**ENGL 492/592. Seminar in Creative Writing.**
Cr. 3. Students consider various forms of creative writing (drama, fiction, nonfiction, poetry), but focus their work in a single genre. Requirements include a series of progress papers and a substantial portfolio of creative work. Prerequisite: ENGL 301 or 423 or 424 or 431 or approval of the Chair of the Department.

**ENGL 493. Seminar in English.**
Cr. 3. Designed for juniors and seniors interested in active participation, the seminar encourages independent thought and research, and relies on discussion rather than lectures. Some recent topics: Literary Modernism, Willa Cather. Enrollment limited to 15 students. Required for English majors. Prerequisite: senior standing.

**ENGL 495. Independent Study in English.**
Cr. 3. Designed to provide advanced students an opportunity to do serious research on a topic which is not covered in any regularly scheduled course offered by the English Department. In advance of the semester in which students plan to undertake projects, they must arrange for directors and secure approval from the Chair of the English Department.

**ENGL 497. Honors Work in English Literature.**
Cr. 3. See Honors Work page 53.

**ENGL 498. Honors Candidacy in English Literature.**
Cr. 3. See Honors Work page 53.
Environmental Science

Administrative Committee:
Professors Arkkelin (Psychology),
Caristi (Mathematics and Computer Science),
Janke (Geography and Meteorology); Associate Professors
Aljohbeh (Civil Engineering),
Eberhardt (Biology, Chair),
Shingleton (Economics); Assistant Professor Luther (Mathematics and Computer Science).

Students who complete the Environmental Science program will have fulfilled the major field requirements for the Bachelor of Science degree.

Objectives. The Environmental Science Program gives the student the requisite scientific background for adequately assessing environmental systems. Field work extends that knowledge into environmental modeling techniques to give the student an opportunity for directed research and tempers the student's expertise with a modicum of philosophical and social reflection on his or her undertakings. An Environmental Science major should well position the student to enter into graduate work in environmental science or policy or into the professions of environmental management and protection. Science courses are distributed among biology, chemistry, and geography; a modelling course provides techniques for applying knowledge and skills gained in the science courses to environmental problems; philosophy and economics courses help students develop conceptual frameworks in which to link environmental and human concerns. Outside the classroom, Earthtones, a student organization, coordinates campus and community environmental action.

Students interested in pursuing the Environmental Science Program should confer with a member of the Administrative Committee.

Requirements. A minimum of 66 credit hours approved by the Administrative Committee is required. Courses must include BIO 171, 172, 350, 440 (15 credits); CHEM 121, 122, 221, 222, 230 (20 credits); ENGL 300; GEO 104, 490; Environmental Management (7 credits); calculus: one of MATH 122, 131, 151 (4 credits); statistics: one of MATH 240, PSY 201, IDS 206, CE 202 (3-4 credits); one of BIO 250, GEO 260, PSY 355 (3 credits); ENVS 320 and 425 (4 credits); an independent research project in biology, chemistry, or geography; and six credits of an elective from the list below.

Students will undertake an independent research project under the direction of one of the science professors; research results will be presented during the Environmental Science Colloquium.

The History/Philosophy General Education Requirement must be fulfilled with PHIL 230; one of the Social Analysis General Education Requirements must be fulfilled with ECON 210; and ENGL 300 must be taken to complete major.

The Introductory Courses fulfill the Natural and Behavioral Sciences/ Mathematics General Education Requirement.

General Education
PHIL 230 Environmental Philosophy and Ethics .... 3 Cr.
ECON 210 Environmental Economics and Policy .... 3 Cr.

REQUIRED COURSES

Introductory Courses
BIO 171 Unity of Life ............... 4 Cr.
BIO 172 Diversity of Life ............ 4 Cr.
CHEM 121 General Chemistry I .... 4 Cr.
CHEM 122 General Chemistry II .... 4 Cr.
GEO 104 Geomorphology .... 4 Cr.
Calculus One of the following: 
MATH 122 Intuitive Calculus of One or More Variables .... 4 Cr.
MATH 131 Analytical Geometry and Calculus I .... 4 Cr.
MATH 151 Calculus I .... 4 Cr.
Total .... 24 Cr.

Environmental Issues
One of the following:
BIO 250 Human Environmental Biology .... 3 Cr.
GEO 260 Environmental Conservation .... 3 Cr.
PSY 355 Environmental Psychology .... 3 Cr.
Total .... 9 Cr.

Upper Level Courses
BIO 350 Field Biology: Spring .... 3 Cr.
BIO 440 Ecology .... 4 Cr.
CHEM 221 Organic Chemistry I .... 4 Cr.
CHEM 222 Organic Chemistry II .... 4 Cr.
CHEM 230 Quantitative Analysis .... 4 Cr.
ENGL 300 Introduction to Professional Writing .... 3 Cr.
GEO 490 Topics: Environmental Management .... 3 Cr.
Statistics: One of the following: 
MATH 240 Statistical Analysis .... 3-4 Cr.
PSY 201 Statistical Methods .... 3 Cr.
IDS 205 Business Statistics .... 3 Cr.
CE 202 Statistical Applications in Civil Engineering .... 2 Cr.
Total .... 8-10 Cr.

Capstone Courses
ENVS 320 Environmental Modeling or MATH 320 Mathematical Models in the Life and Social Sciences .... 3 Cr.
ENVS 425 Colloquium: Communicating Environmental Research .... 1 Cr.
Independent Research Project One of the following: 
BIO 495 Research in Biology .... 1-2 Cr.
CHEM 495 Special Problems in Chemistry .... 1-2 Cr.
GEO 495 Independent Study .... 2-3 Cr.
Total .... 6-7 Cr.

Elective Courses
Select two from the following:
BIO 390 Topics: Botany .... 3 Cr.
ENGL 390 Topics: Environmental Literature .... 3 Cr.
GEO 210 Current Themes: Human Impacts .... 3 Cr.
GEO 215 Introduction to Geographic Information Systems .... 3 Cr.
GEO 230 Remote Sensing in Geography .... 3 Cr.
GEO 385 Field Study (Environmental or Biogeography) .... 3 Cr.
GEO 415 Advanced Geographic Information Systems .... 3 Cr.
GEO 490 Topics: Biogeography .... 3 Cr.
MET 103 Meteorology .... 4 Cr.
MET 215 Climatology .... 3 Cr.
CE 151 Construction Surveying .... 3 Cr.
CE 332 Hydrology .... 3 Cr.
CE 364 Environmental Engineering I .... 3 Cr.
CE 365 Environmental Engineering II .... 3 Cr.
CE 466 Environmental Engineering Design .... 3 Cr.
Total .... 6-7 Cr.

Total Program Requirement .... 66-70 Cr.
Foreign Languages and Literatures

Professor Kumpf; Associate Professors Ames, S. DeMaria, DuVick (Chair), Zamora; Assistant Professors Berrier (Visiting), Bjornstad, Farmer, Gantz, Hoult, Kavanagh, Malchow, Prieto; Instructor Rivers-Parroquín; Lecturers Eda, Meng.

Acquaintance with a foreign language and a foreign culture has a profound effect on the way individuals view their own language and their own heritage. Pursuit of studies in this area raises the sights of individuals from the level of provincialism to the level of broadened human concern and is, therefore, a vital part of students' experience, regardless of their fields of specialization. Students, while thus deepening their backgrounds in the humanities, at the same time acquire a working knowledge of another language, a practical skill valued in many of today's professions.

A major in a foreign language may lead to such careers as foreign trade, airline management, international banking, foreign news correspondent, teaching, law, or paralegal professions, social work among the non-English speaking, translation, or government service.

Objectives. In the lower division courses, numbered in the 100s, the Department has the following objectives:

1. To teach the fundamental skills of reading, writing, aural comprehension and speaking in a foreign language.
2. To provide students with a solid basis for further study of the language, literature and civilization.
3. To enhance students' awareness of language in general: its structures, uses and relationship to the culture of the lands in which the language is spoken.

Classical Languages and Hebrew

1. To read the original text with understanding.
2. To study the ideas, history and culture that are the basis of Western Civilization.

In the upper division courses, numbered 200 to 499, the objectives are to continue the work done in the lower division, to prepare students for graduate study, for teaching or for entering careers which demand use of a foreign language; more specifically:

1. To refine the skills acquired in the lower division courses.
2. To study literature both as individual works of art and as a reflection of the civilization and era from which it sprang.
3. To study a foreign civilization and its development.
4. To offer such specialized work as is necessary for those who plan to teach or those who would use foreign language in their careers.

The Department of Foreign Languages and Literatures cooperates with the Departments of Economics, Geography, History and Political Science in a major in International Economics and Cultural Affairs designed for students considering careers in the fields of international commerce or government service (see page 122 for details) and also participates in the International Service major.

Study Abroad. Through University programs and affiliations, an opportunity to study abroad is afforded students of any of the foreign languages. Foreign language majors and minors are strongly encouraged to study abroad. See pages 18-24 for details.

Placement and Special Credit.

Before beginning the study of a foreign language already studied in high school, students are required to take a placement examination administered by this Department. Students who wish to begin languages they have not studied before must register for course 101 of those languages. Students who have completed Level II of a foreign language in high school and also place into 101 of that language may enroll in 101 for elective credit only, but must complete level 203 to fulfill the foreign language requirement.

Students who place directly into level 203 of a language shall receive 4 credit hours for level 102 and 4 credit hours for level 203 when they pass course 203 at Valparaiso University.

Students who place directly into level 204 or higher in a language shall receive 4 credit hours for level 102, 4 credit hours for level 203 and the credit hours for the course into which they have placed when they pass this latter course at Valparaiso University.

Students who have taken the equivalent of level 203 at another institution will not be awarded retroactive credit. However, they will be considered to have fulfilled their Valparaiso University language requirement.

Advanced Placement by Examination. It is possible to fulfill the Foreign Language General Education Requirement through the Advanced Placement Program of the College Entrance Examination Board or through the College Level Examination Program.

Special Exception to Foreign Language Requirement.

Foreign students whose native language is not English and who are studying on a nonimmigrant visa are exempt from the Foreign Language General Education Requirement provided that they fulfill the General Education Requirements in English.

Eligibility. Completion of the degree requirements of the College of Arts and Sciences with a major in Classics, French, German, or Spanish leads to the Bachelor of Arts degree.

Cooperative Education. Qualified students may participate in the Cooperative Education program, subject to the availability of suitable positions. During the time of their employment, students are financially reimbursed by the cooperating employer and also receive credit toward the Foreign Language major. Eligible students are normally junior or senior Foreign Language majors who have completed 12 credits beyond the third semester of their language with a cumulative grade point average of 3.00 in their foreign language courses.

Cooperative Education may be repeated for up to a total of 12 credit hours, only 3 of which may be counted toward meeting the minimum requirements of the major. For further information, refer to Cooperative Education, College of Arts and Sciences, page 54.

Approval of Schedules. All students who take a major or minor in the Department and all students who plan to teach a foreign language must have their schedules approved by their Foreign Language advisers at registration. A list of specific course requirements and credits required for teaching majors and minors is available from the Chair of the Education Department.

Chinese

Minor. A minimum of 16 credit hours in Chinese constitutes a minor. EAST courses 109, 110, 209, 210, taken at the Hangzhou, China study center, and EAST 495 when the topic is Chinese Language study, may count toward the minor.

Study Abroad Opportunities: Hangzhou Program available fall semester only. See page 20 for details. Students considering study abroad should consult with the Department Chair and their academic adviser as early as possible.

FLC 101. Beginning Chinese I.

Cr. 4. Basic elements of modern Chinese (Mandarin), including the four tones, sentence structure and some Chinese characters. May not be taken by students who have taken language study courses in China.

FLC 102. Beginning Chinese II.

Cr. 4. Continuation of FLC 101. Prerequisite: FLC 101 or equivalent. May not be taken by students who have taken language study courses in China.

FLC 203. Intermediate Chinese I.

Cr. 4. Development of FLC 101 and 102, focusing on speaking, aural comprehension, reading and writing. Emphasis on drills and discussion of readings. Introduction of simplified characters and cursive script. Continuously increasing use of Chinese in class. Prerequisite: FLC 102 or permission of the instructor.

FLC 204. Intermediate Chinese II.

Cr. 4. Continuation of FLC 203, emphasizing development of speaking, aural comprehension, reading and writing. Includes readings from a variety of sources including contemporary Chinese short stories, lectures, and newspapers. Class sessions conducted in Chinese as much as possible. Prerequisite: FLC 203 or permission of the instructor.

FLC 495. Supervised Reading and Research in Chinese.

Cr. 1-4. A guided study of Chinese Language and Literature. Prerequisites: FLC 204 or.
Classics

Major. Students must choose one of two tracks: the Classical Language and Literature track or the Classical Civilization track.

Classical Language and Literature Track: Requirements for the major are CLC 220 and either CLC 310 or CLC 311 and one of the following language concentrations:
1. Greek (24 credits) or Latin (18 credits beyond FLL 203)
2. Latin (16 credits beyond FLL 203)
3. Classical Languages (16 credits of Greek and 8 credits of Latin beyond FLL 203).

Note: Students planning to pursue a graduate program in Classics should take as many Greek and Latin courses as possible. Sixteen hours of Greek language courses is normally the minimum recommendation for students interested in seminary training; pre-seminary students should consult with the pre-seminary advisor in the Department of Theology.

Classical Civilization Track: Requirements for the major are:
1. Completion of the 101-102 sequence in either Latin or Greek, or completion of 4 credits of work in either language at the level of course 203 or above, and
2. 24 credits of Classical Civilization courses, which must include CLC 200, CLC 220, either CLC 310 or CLC 311, and CLC 411. Of the remaining 12 elective credits, as many as 6 may be taken in other departments, approved courses are PHIL 275, and THEO 317. Other courses may be counted toward the major with prior permission of Classics section head and Department Chair.

Minor. Students must choose one of two tracks: the Language and Literature track or the Classical Civilization track.

Language and Literature Track: Requirements are either CLC 310 or CLC 311 and one of the following language concentrations:
1. Greek (16 credits) or Latin (8 credits beyond 203).

Classical Civilization Track: Requirements are 15 credits of Classical Civilization courses, which must include CLC 200, CLC 220, and either CLC 310 or CLC 311.

Teaching Programs. Students who plan to teach Latin in secondary schools with a major or minor in Classics should consult their departmental adviser and the Education Department for specific details.

Scholarships. Special scholarships for Classics students include The Rev. and Mrs. Arthur L. Reinke and the Rev. and Mrs. Augustus Reinke Memorial Scholarship, the John and Dorothea Helms Endowed Scholarship, and the Delta Upsilon Chapter of Eta Sigma Phi Scholarships.

Study Abroad Opportunities: College Year in Athens (available fall only) American School of Classical Studies at Athens (available summer only) Archaeological Field Work (available summer only).

See pages 19 and 24 for details; students considering study abroad should consult with the Department Chair and their academic advisor as early as possible.

Classical Civilization

See Classics for description of Classical Civilization concentration in Classics major and minor.

CLC 200. Classical Literary and Artistic Expression. Cr. 3. A study of Greek or Roman literature in translation and art. May be repeated for credit provided there is no duplication of material. No knowledge of Greek or Latin required. This course may be used to fulfill the Fine Arts/Fine Arts Literature component of the General Education Requirements.

CLC 220. Introduction to Classical Archaeology. Cr. 3. A study of classical archaeological sites including sculpture, painting, and architecture, and their relationship to political and cultural history. Field trip to a major museum. No knowledge of Greek or Latin required. This course may be used to fulfill the Fine Arts/Fine Arts Literature component of the General Education Requirements.

CLC 250. Classical Monuments in Context. Cr. 3. A travel course in which the study of Greek or Roman artistic and literary expression takes place in a classical environment. Study trips will be conducted to Greece, Italy, or Roman Germany. May be repeated for credit if the trips are different. No knowledge of Greek or Latin required. Offered summers only.

CLC 251. Classical Mythology. Cr. 3. Survey of Greek and Roman myths and their influence on modern literature and art. No knowledge of Greek or Latin required. This course may be used to fulfill the Fine Arts/Fine Arts Literature component of the General Education Requirements.

CLC 290. Special Topics in Classical Civilization. Cr. 3. A study of a particular issue or theme in Classical Civilization. Topics will be selected on the basis of student and faculty interest. Possible topics include The Roman World in Film, and Cultural Diversity in the Classical World. May be repeated for credit provided there is no duplication of material. No knowledge of Greek or Latin required. The topic, Cultural Diversity in the Classical World, may be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

CLC 310. Greek Civilization. Cr. 3. (Also offered as HIST 310) A study of Greek civilization from the late Bronze Age through the Hellenistic period, with emphasis on political, social, and cultural developments. No knowledge of Greek or Latin required. Prerequisite: sophomore standing or consent of the Chair of the Department. This course may be used to fulfill the philosophical and Historical Studies component of the General Education Requirements.

CLC 311. Roman Civilization. Cr. 3. (Also offered as HIST 311.) A study of Roman civilization from the 8th century B.C. to the Council of Nicea in A.D. 325, with emphasis on political, social, and cultural developments. No knowledge of Greek or Latin required. Prerequisite: sophomore standing or consent of the Chair of the Department. This course may be used to fulfill the Philosophical and Historical Studies component of the General Education Requirements.

CLC 321. Archaeological Practicum. Cr. 1-3. Student participation in an approved excavation of a classical site. Participants must receive some on-site instruction in excavation goals and methods. Two weeks' work will normally earn 1 credit. Formal report required. Prerequisites: FLLG 102 or FLL 102, CLC 220, either CLC 310 (HIST 310) or CLC 311 (HIST 311), and approval of Department Chair and excavation director.

CLC 411. Studies in Classical Epic or Classical Drama. Cr. 3. Close reading of selected epics by Homer, Apollonius, and Vergil, or of selected plays by Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, and Terence. Discussion of historical context, poetic technique, and the values and concerns that the works reflect. May be repeated for credit provided there is no duplication of material. No knowledge of Greek or Latin required. Prerequisite: either CLC 310 or 311 or instructor's approval.

CLC 481. Cooperative Education in Classical Civilization I. Cr. 0.5-3. Work experience with a cooperative employer. Prerequisites: 20 credits of work in CLC, including CLC 220 and either CLC 310 or 311, and approval of Department Chair. SU grade.

CLC 482-483. Cooperative Education in Classical Civilization II-III. Cr. 0.5-3. Continuation of CLC 481. Prerequisites: CLC 481 and approval of Department Chair. SU grade. May be repeated beyond 483 for additional credit.

CLC 496. Supervised Reading and Research in Classical Civilization. Cr. 1-4. Intended for students capable of doing independent study in Classical Civilization. Scholarly paper required. Prerequisite: Consent of Department Chair.


French

Major. A minimum of 27 credit hours in French beyond FLF 203 constitutes a major. Courses must include FLF 204, 221, 222, 231, 232, and 493.

Minor. A minimum of 14 credit hours beyond FLF 203 constitutes a minor. Courses must include FLF 204 and one course from FLF 221, 222, 231, or 232.

Special Placement. Students who place directly into a course higher than level 204 need not complete level 204 but must complete all other requirements for the major or minor, including the required total of 27 credit hours (major) or 14 credit hours (minor).

Teaching Programs. Students who plan to teach French in secondary schools with a major or minor in French should consult their departmental adviser and the Education Department for specific requirements.

The Roger and Hazel Guillaumond Award. See page 30 for details.
The Patterson MacLean Friedrich Scholarship. See page 30 for details.

Study Abroad Opportunities:
Sorbonne Paris Program (available full year or spring semester)
Paris Internship Program (available fall or spring semester)
See page 22 for details; students considering study abroad should consult with the Department Chair and their academic adviser as early as possible.

FLF 101. First Semester French.
Cr. 4. Introduction to French language and culture with emphasis on understanding, speaking, reading, and writing. Refer to foreign language credit policies stated on pages 102-103.

FLF 102. Second Semester French.
Cr. 4. A continuation of FLF 101. Prerequisite: FLF 101 or equivalent.

Cr. 4. A course designed to review and refine knowledge of basic grammar, to improve aural comprehension and verbal skills through classroom and laboratory work and to introduce reading and composition. Prerequisite: FLF 102 or equivalent.

FLF 204. French Composition and Conversation I.
Cr. 4. A course designed to build communication skills and understanding of French and Francophone culture. Grammar review, composition on varied topics, extensive oral practice, reading of a novel in French. Prerequisite: FLF 203 or equivalent. May be repeated for credit at the Paris Centers or similarly accredited programs.

FLF 205. French Composition and Conversation II.
Cr. 4. A continuation of FLF 204 with work of increased complexity. Prerequisite: FLF 204. May be repeated for credit at the Paris Centers or similarly accredited programs.

FLF 221. French Literature from the Middle Ages to 1789.
Cr. 3. A survey of French literary history from the Middle Ages to the end of the 18th century with reading of representative works. Prerequisite: FLF 204.

FLF 222. French Literature from 1800 to the Present.
Cr. 3. A survey of French literary history of the 19th and 20th centuries with reading of representative works. Prerequisite: FLF 204.

FLF 231. French Civilization to 1870.
Cr. 3. A survey of French cultural history encompassing political, social, and artistic components to the beginning of the Third Republic. Prerequisite: FLF 204.

FLF 232. French Civilization from 1870 to the Present.
Cr. 3. A survey of French cultural history encompassing political, social, and artistic components from the Third Republic to the present, including study of contemporary French society. Prerequisite: FLF 204.

FLF 240. French Phonetics.
Cr. 3. A study of the principles of French phonetics with special emphasis on the difficulties encountered by American students. Much practical training in the laboratory. Prerequisite: FLF 203 or equivalent.

FLF 250. Topics in French Literature and the Fine Arts.
Cr. 3. Study of selected works of French literature in English translation and of their correlates in the visual arts and/or music. No knowledge of French required. May not be counted toward a major or minor in French.

Cr. 4. French newspapers, magazines, radio, television, films, and internet are used as a basis to build more advanced language skills and to familiarize the student with modern-day France. Prerequisite: FLF 204.

FLF 307. Professional French.
Cr. 3. A study of the French language as it is used in the international business world, including general commercial technology, correspondance, and the basic workings of French business. Prerequisite: FLF 204.

FLF 390. Seminar in French.
Cr. 3. A study of selected themes or issues in French or Francophone literature, language, or civilization. Prerequisite: one course from the following: FLF 221, 222, 231, or 232.

FLF 481. Cooperative Education in French I.
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond FLF 203 and approval of the Chair of the Department. S/U grade.

FLF 482-483. Cooperative Education in French II.
Cr. 0.5-3. Continuation of FLF 481. Prerequisites: FLF 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 463 for additional credit.

FLF 489. The Teaching of Foreign Languages.
Cr. 3. (See ED 489) A study of the methods of teaching foreign languages in secondary schools. A field component is required. May not be counted toward a major or minor in the

Department of Foreign Languages and Literatures. Prerequisite: admission to Teacher Education. Given upon sufficient demand.

FLF 493. Senior French Seminar.
Cr. 3. A senior-level capstone course which integrates knowledge and skills from previous French courses. Language skills (speaking, listening, writing, reading) are refined as depth and nuance are added to the understanding of French history, literature, culture and contemporary events. Prerequisites: senior standing and consent of the Chair of the Department.

FLF 495. Supervised Reading and Research in French.
Cr. 1-4. Intended for students capable of doing independent study in French language, civilization and literature. Prerequisite: consent of the Chair of the Department.

FLF 497. Honors Work in French.
Cr. 3. See Honors Work, page 53.

FLF 498. Honors Candidacy in French.
Cr. 3. See Honors Work, page 53.

German

Major. A minimum of 27 credit hours in German beyond FLGR 203 constitutes a major. Courses must include FLGR 204, 221, 222, 231, 232, and 493.

Minor. A minimum of 14 credit hours beyond FLGR 203 constitutes a minor. Courses must include FLGR 204 and one course from FLGR 221, 222, 231, or 232.

Special Placement. Students who place directly into a course higher than level 204 need not complete level 204 but must complete all other requirements for the major or minor, including the required total of 27 credit hours (major) or 14 credit hours (minor).

Teaching Programs. Students who plan to teach German in secondary schools with a major or minor in German should consult their departmental adviser and the Education Department for specific requirements.

Valparaiso International Engineering Program (VIEP-Germany).
Engineering students who wish to enhance their program with German language study, study abroad, and an overseas cooperative education placement should see page 204 for details about the VIEP-Germany program.

Study Abroad Opportunities:
Reutlingen Program (available fall or spring semester).

Tübingen Program (available full year only). See page 24 for details; students considering study abroad should consult with the Department Chair and their academic advisor as early as possible.

The Walter M. Miller Memorial Prize. See page 30 for details. Also available: Reutlingen Semester Scholarship, Kade-Duesenberg German House Residence Scholarship, and Tübingen Orientation Scholarship, all supported by the Max Kade Foundation.

FLGR 101. First Semester German.
Cr. 4. Introduction to German language and culture with emphasis on understanding, speaking, reading, and writing. Refer to foreign language credit policies stated on pages 102-103.

FLGR 102. Second Semester German.
Cr. 4. A continuation of FLGR 101. Prerequisite: FLGR 101 or equivalent.

FLGR 203. Intermediate German.
Cr. 4. A course designed to review and refine knowledge of basic grammar, to improve aural comprehension and verbal skills through classroom and laboratory work and to introduce reading and composition. Prerequisite: FLGR 102 or equivalent.

FLGR 204. German Composition and Conversation I.
Cr. 4. A course designed to build communication skills and understanding of German and German-language culture. Grammar review, composition on varied topics, extensive oral practice, reading of a novel in German. Prerequisite: FLGR 203 or equivalent. May be repeated for credit at the Reutlingen Center or similarly accredited programs.

FLGR 205. German Composition and Conversation II.
Cr. 4. A continuation of FLGR 204 with work of increased complexity. Prerequisite: FLGR 204. May be repeated for credit at the Reutlingen Center or similarly accredited programs.

FLGR 221. Selected Readings in German Literature to 1800.
Cr. 3. Representative examples from different genres of German literature through the end of the 18th century. Prerequisite: FLGR 204.

FLGR 222. Selected Readings in German Literature since 1800.
Cr. 3. Representative examples from different genres of German literature from the age of Goethe to the present. Prerequisite: FLGR 204.

FLGR 231. German Civilization to 1800.
Cr. 3. A historical and interdisciplinary survey of German culture to the end of the 18th century. Prerequisite: FLGR 204.

Foreign Languages and Literatures
FLGR 232. German Civilization since 1800.  
Cr. 3. A historical and interdisciplinary survey of German culture in the 19th and 20th centuries.  
Prerequisite: FLGR 204.

FLGR 250. Topics in German Literature and the Fine Arts.  
Cr. 3. Study of selected works of German literature in English translation and of their correlates in the visual arts and/or music. No knowledge of German required. May not be counted toward a major or minor in German.

FLGR 260. History of the German Film.  
Cr. 3. A survey of the German film from the 1920's to the present. No knowledge of German required. May not be counted toward a major or minor in German. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

FLGR 306. Contemporary German Language in the Mass Media.  
Cr. 4. German-language newspapers, magazines, radio, television, films, and internet are used as a basis to build more advanced language skills and to familiarize the student with modern-day German language countries.  
Prerequisite: FLGR 204.

FLGR 307. Professional German.  
Cr. 3. A study of the German language as it is used in the international business world, including basic commercial technology, correspondence, and the basic workings of business in German language countries.  
Prerequisite: FLGR 204.

FLGR 341. History of the German Language.  
Cr. 3. A historical study of the development of the German language. Students are introduced to the basics of linguistics, to linguistic change from Indo-European to the present, and to contemporary dialect variation in German.  
Prerequisite: FLGR 204.

FLGR 390. Seminar in German.  
Cr. 3. A study of selected themes or issues in German literature, language, or civilization.  
Prerequisite: one course from the following: FLGR 221, 222, 231, or 232.

FLGR 481. Cooperative Education in German I.  
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond FLGR 203 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.  

FLGR 482-483. Cooperative Education in German II-II.  
Cr. 0.5-3. Continuation of FLGR 481. Prerequisites: FLGR 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

FLGR 489. The Teaching of Foreign Languages.  
Cr. 3. (See FLF 489 and ED 489.) A field component is required. Prerequisite: admission to Teacher Education.

FLGR 493. Senior German Seminar.  
Cr. 3. A senior level capstone course which integrates knowledge and skills from previous German courses. Language skills (speaking, listening, writing, reading) are refined as depth and nuance are added to the understanding of German history, literature, culture, and contemporary events. Prerequisites: senior standing and consent of the Chair of the Department.

FLGR 495. Supervised Reading and Research in German.  
Cr. 1-4. Intended for students capable of doing independent study in German language and literature. Research paper required. Prerequisite: consent of the Chair of the Department.

FLGR 497. Honors Work in German.  
Cr. 3. See Honors Work, page 53.

FLGR 498. Honors Candidacy in German.  
Cr. 3. See Honors Work, page 53.

FLGR 482-483. Cooperative Education in Japanese I.  
Cr. 0.5-3. Continuation of FLJ 481. Prerequisites: 12 credits beyond FLJ 203 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

FLGR 484-485. Cooperative Education in Japanese II-II.  
Cr. 0.5-3. Continuation of FLJ 481. Prerequisites: FLJ 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

FLGR 487. Teaching of Foreign Languages and Literatures  
Cr. 2-4. A study of a major author, genre, or period, or of prose composition. This course may be repeated provided there is no duplication of material. Prerequisite: FLG 203 or equivalent.

FLGR 489. Supervised Reading and Research in Greek.  
Cr. 1-4. Intended for students capable of doing independent study in Greek language and literature. Scholarly paper required. Prerequisite: consent of the Chair of the Department.

FLGR 497. Honors Work in Greek.  
Cr. 3. See Honors Work, page 53.

FLGR 498. Honors Candidacy in Greek.  
Cr. 3. See Honors Work, page 53.

FLH 101. First Semester Hebrew.  
Cr. 4. Elements of Hebrew grammar stressing oral and reading ability.

FLH 102. Second Semester Hebrew.  
Cr. 4. A continuation of FLH 101, with reading of simpler prose sections of the Old Testament. Prerequisite: FLH 101 or equivalent.

Cr. 4. Selected reading of Old Testament prose and poetry, with attention to increased vocabulary and linguistic structure. Prerequisite: FLH 102 or equivalent.

FLH 220. Selected Readings in Hebraic Literature.  
Cr. 4. Readings for advanced students from the Old Testament and rabbinic literature. Prerequisite: FLH 203 or consent of the Chair of the Department.

FLH 495. Supervised Reading and Research in Hebrew.  
Cr. 1-4. Intended for students capable of doing independent study in Hebrew language and literature. Research paper required. Prerequisite: consent of the Chair of the Department.

FLJ 101. Beginning Japanese I.  
Cr. 4. An introduction to the basic grammar of Japanese.

FLJ 102. Beginning Japanese II.  
Cr. 4. A continuation of FLJ 101. Prerequisite: FLJ 101 or equivalent.

FLJ 203. Intermediate Japanese I.  
Cr. 4. Reading, writing, and discussion in Japanese on the intermediate level, with a review of Japanese grammar. Prerequisite: FLJ 102 or equivalent.

FLJ 204. Intermediate Japanese II.  
Cr. 4. A continuation of FLJ 203. Prerequisite: FLJ 203 or equivalent.

Cr. 3. Study of selected works of Japanese literature in English translation and of their correlates in the visual arts and/or music. No knowledge of Japanese required. The topic Japanese Poetry and Calligraphy may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

FLJ 251. Introduction to Japanese Literature.  
Cr. 3. Readings of representative works of Japanese literature in English. No knowledge of Japanese required. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

FLJ 305. Advanced Japanese I.  
Cr. 4. Continuation of FLJ 204. Introduction of extended prose readings. Simple conversation in everyday Japanese. Prerequisite: FLJ 204 or equivalent.

FLJ 306. Advanced Japanese II.  
Cr. 4. Continuation of FLJ 305. Emphasis on syntax of prose texts; review of grammar. Conversation in everyday Japanese. Composition in the expository style. Prerequisite: FLJ 305 or equivalent.

FLJ 481. Cooperative Education in Japanese I.  
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond FLJ 203 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

FLJ 482-483. Cooperative Education in Japanese II-II.  
Cr. 0.5-3. Continuation of FLJ 481. Prerequisites: FLJ 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

FLK 411. Greek Prose.  
Cr. 2-4. A prose composition. This course may be repeated provided there is no duplication of material. Prerequisite: FLG 203 or equivalent.

FLK 498. Supervised Reading and Research in Greek.  
Cr. 1-4. Intended for students capable of doing independent study in Greek language and literature. Scholarly paper required. Prerequisite: consent of the Chair of the Department.

FLK 499. Honors Work in Greek.  
Cr. 3. See Honors Work, page 53.

FLK 500. Honors Candidacy in Greek.  
Cr. 3. See Honors Work, page 53.
Foreign Languages and Literatures

Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

FLL 495. Supervised Reading and Research in Latin.
Cr. 1-4. Intended for students capable of doing independent study in Latin language and literature. Scholarly paper required. Prerequisite: consent of the Chair of the Department.

FLL 497. Honors Work in Latin.
Cr. 3. See Honors Work, page 53.

FLL 498. Honors Candidacy in Latin.
Cr. 3. See Honors Work, page 53.

Spanish

Major. A minimum of 27 credit hours beyond FLS 203 constitutes a major. Courses must include FLS 204, 220, 230 or 231, 321 or 322, and 493.

Minor. A minimum of 14 credit hours above FLS 203 constitutes a minor. Courses must include FLS 204 and one course from FLS 220, 230, or 231.

Special Placement. Students who place directly into a course higher than level 204 need not complete level 204 but must complete all other requirements for the major or minor, including the required total of 27 credit hours (major) or 14 credit hours (minor).

Teaching Programs. Students who plan to teach Spanish in secondary schools with a major or minor in Spanish should consult the Chair of the Department and the Education Department for specific requirements.

FLL 101. First Semester Latin.
Cr. 4. A course designed to give the student the essentials of Latin and to provide a brief introduction to Roman literature and culture. Refer to foreign language credit policies stated on pages 102-103.

FLL 102. Second Semester Latin.
Cr. 4. A continuation of FLL 101, followed by easy selections from Latin prose. Prerequisite: FLL 101 or equivalent.

Cr. 4. A course designed to review and refine knowledge of basic grammar and syntax, to introduce reading and composition and to study pertinent aspects of Roman life and history. Prerequisite: FLL 102 or equivalent.

FLL 204. Vergil.
Cr. 4. Readings from the works of Vergil and an introduction to Vergilian scholarship. Prerequisite: FLL 203 or equivalent.

Cr. 4. Readings in the Vulgate and in Medieval prose and poetry. Prerequisite: FLL 203 or equivalent.

FLL 410. Latin Poetry.
Cr. 2-4. A study of a major poet, genre, or period. This course may be repeated provided there is no duplication of material. Prerequisite: FLL 203 or equivalent.

FLL 411. Latin Prose.
Cr. 2-4. A study of a major author, genre, or period, or of prose composition. This course may be repeated provided there is no duplication of material. Prerequisite: FLL 203 or equivalent.

FLL 489. The Teaching of Foreign Languages.
Cr. 3. (See FLL 489 and ED 489.) A field component is required. Prerequisite: admission to the Professional Semester.

FLL 495. Supervised Reading and Research in Latin.
Cr. 1-4. Intended for students capable of doing independent study in Latin language and literature. Scholarly paper required. Prerequisite: consent of the Chair of the Department.

FLL 497. Honors Work in Latin.
Cr. 3. See Honors Work, page 53.

FLL 498. Honors Candidacy in Latin.
Cr. 3. See Honors Work, page 53.

Spanish, review and refine knowledge of basic grammar, broaden vocabulary and increase familiarity with Hispanic cultures. Prerequisite: FLS 102 or equivalent.

FLL 204. Spanish Composition and Civilization.
Cr. 4. Practice in speaking, understanding, reading and writing everyday Spanish. Increased understanding of the Hispanic world through reading and discussion. Prerequisite: FLS 203 or equivalent.

FLL 220. Selected Readings in Hispanic Literature.
Cr. 4. The reading and discussion of works of Hispanic literature representative of various literary genres, with emphasis on the techniques of literary analysis. Prerequisite: FLS 204.

FLL 230. Spanish Civilization.
Cr. 4. A course intended to further the student's knowledge of the varied elements of Spanish history and culture. Lectures and individual oral participation in Spanish. Prerequisite: FLS 204.

FLL 231. Spanish-American Civilization.
Cr. 4. A course intended to further the student's knowledge of the varied elements of Spanish-American history and culture. Lectures and individual participation in Spanish. Prerequisite: FLS 204.

FLL 250. Topics in Hispanic Literature and the Fine Arts.
Cr. 3. Study of selected works of Hispanic literature in English translation and of their correlates in the visual arts and/or music. No knowledge of Spanish required. May not be counted toward a major or minor in Spanish. The topic, Spanish America in Literature and the Arts, may be used to fulfill the Fine Arts/Fine Arts Literature and the Global Cultures and Perspectives component of the General Education Requirements.

FLS 306. Contemporary Hispanic Society through Communications.
Cr. 4. Latin American and Spanish newspapers, magazines, radio, television, and film are used to build more advanced language skills and to familiarize the student with the modern-day Hispanic world. Prerequisite: FLS 204.

FLS 307. Professional Spanish.
Cr. 3. A study of the Spanish language as it is used in the international business world, including writing of business letters and general commercial terminology. Prerequisite: FLS 204.

FLL 321. Spanish Literature.
Cr. 3. A study of representative works of the literature of Spain from the Middle Ages to the present. Prerequisite: FLS 220.

FLL 322. Spanish American Literature.
Cr. 3. A study of representative works of the literature of Spanish America from the encounter to the present. Prerequisite: FLS 220.

FLL 341. The Spanish Language.
Cr. 3. An introduction to the historical development of the Spanish language through the study of linguistics, phonetics and philology. Prerequisite: FLS 204.

FLL 390. Seminar in Spanish.
Cr. 3. A study of selected themes or issues in Spanish or Spanish American literatures, language, or civilization. Prerequisite: one course from the following: FLS 220, 230, or 231.

FLL 481. Cooperative Education in Spanish I.
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond FLS 203 and approval of the Chair of the Department. S/U grade.

FLL 482-483. Cooperative Education in Spanish II-III.
Cr. 0.5-3. Continuation of FLS 481. Prerequisites: FLS 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

FLL 489. The Teaching of Foreign Languages.
Cr. 3. (See FLL 489 and ED 489.) A field component is required. Prerequisite: admission to Teacher Education.

FLL 493. Senior Spanish Seminar.
Cr. 3. A senior-level capstone course which integrates knowledge and skills from previous Spanish courses. Language skills (speaking, listening, writing, reading) are refined as depth and nuance are added to the understanding of Hispanic history, literature, culture and contemporary events. Prerequisites: FLS 220, senior standing and consent of the Chair of the Department.

FLL 495. Supervised Reading and Research in Spanish.
Cr. 1-4. Intended for students capable of doing independent study in Hispanic language, civilization or literature. Research paper required. Prerequisite: consent of the Chair of the Department.

FLL 497. Honors Work in Spanish.
Cr. 3. See Honors Work, page 53.

FLL 498. Honors Candidacy in Spanish.
Cr. 3. See Honors Work, page 53.
Geography and Meteorology

Geography

Geography is a diverse subject that provides students with a strong, practical liberal arts education and offers a wide variety of employment opportunities. The diversity of the discipline stems from its fundamental concern with how humans as individuals and in groups interact with the physical environment.

The Department's two major objectives are:
1. To provide students with knowledge of the physical environment and human use of that environment;
2. To equip students with marketable skills for employment positions related to the discipline or to prepare them for graduate programs leading toward advanced degrees.

While graduate training usually enlarges a student's opportunities, employment may be found upon graduation with a baccalaureate degree and a geography major. The following are some of the fields of employment for geography majors: cartography, demography, climatology, industrial location planning, land use planning, soil conservation, transportation planning, and teaching of resource management.

Student interest in geography outside the classroom is encouraged through the Geographical Society, which organizes social activities as well as cultural programs. In addition, those who distinguish themselves by high scholarship may be elected to membership in Gamma Theta Upsilon, the international geographic honor society. The Alpha Xi Chapter of Gamma Theta Upsilon was installed at Valparaiso University in 1950.

Valparaiso University, with over 125,000 maps, is the only map repository of the Army Map Service and the United States Geological Survey in Northwest Indiana. Annually thousands of national, regional and topographic maps of all continents are received.

Meteorology

The meteorology course of study at Valparaiso University is a dual-track program leading to either a Bachelor of Science degree in Meteorology or a Bachelor of Arts degree in Broadcast Meteorology. Requirements for the latter option, designed for those interested in careers with the media, are found on page 67.

The science of meteorology draws heavily on the fields of mathematics, physics, chemistry, and computer science. As such, students considering the Bachelor of Science option should possess a strong mathematics and science background. The job market in meteorology is as rich and diverse in scope as the field itself. A majority enter the job market with the National Weather Service, airlines, and private forecasting and environmental consulting firms. Graduate training is required for careers in research and academia. The local chapter of Chi Epsilon Pi meteorology honor society promotes excellence and further training in meteorology.

Students interested in extracurricular learning opportunities are encouraged to participate in the National Weather Association chapter and VUSIT program and avail themselves of the program's field course opportunities, including the Severe Convective Storm Field Studies. Internships and cooperative education experiences are also available to qualified students. The department maintains a well-equipped weather center with instrumented tower, McIDAS-X/GEMPACK, and Doppler radar data available.

Major. A minimum of 16 credit hours in geography chosen by the student in consultation with the Chair of the Department constitutes a major. Two 100-level, two 200-level, and four 300-level or higher courses must be included.

Within the geography major, students may focus their studies further by selecting one of the following concentrations: Cartography and Geographic Information Systems (GIS), Environmental Geography, Urban Geography and Regional Planning, and Human/Cultural Geography. The Department maintains detailed information sheets on these concentrations, including course listings, internship recommendations, and career options. Contact the Chair of the Department for details.

Minor. A minimum of 16 credit hours in geography, chosen by the student in consultation with the Chair of the Department, constitutes a minor. One 100-level, one 200-level, and two 300-level or higher courses must be included.

American Indian Studies Minor. A minimum of 16 credit hours is required for the minor and must include at least one 100-level geography course and at least six credit hours from the following courses: GEO 200, 274 and 490, and six additional credit hours selected from GEO 385, 474, and 486.

Because geography offers undergraduate students excellent opportunities to develop their professional skills through course work, field study, and internships, the Department maintains information sheets on geography as a second major or minor tailored specifically to disciplines such as biology, civil engineering, business, foreign language, history, sociology/anthropology, and political science. The new Kallay Laboratory was designed to facilitate research and teaching in the area of computerized geographic analysis, including GIS, remote sensing, and cartography. Other courses analyzing ethnic relations and global cultures will strengthen student interests in the humanities and social sciences. Contact the Chair of the Department for more information or visit the Department's web page at <http://www.valpo.edu/geomat/>.
students majoring in geology are G-350, G-410 and G-413. See the IUN catalog.

**Degree.** Completion of the degree requirements of the College of Arts and Sciences with a major in Geography leads to the Bachelor of Arts degree. Completion of the degree requirements of the College of Arts and Sciences with a major in Meteorology leads to the Bachelor of Science degree.

**Approval of Schedules.** All students taking a major or minor in geography or the VIGGA major in geology, and all students planning to teach geography must have their schedules approved by the Chair of the Department at the beginning of each semester.

### GEOGRAPHY

**GEO 101. World Human Geography.**
Cr. 3. A topical introduction to the many themes and subfields of human geography, especially population, economic, cultural, urban, and political geography. Examples highlighting these themes draw from relevant contemporary events in both the industrialized and developing worlds. This course may be used to fulfill a part of the Social Analysis component of the General Education Requirements.

**GEO 102. Geography of the Non-Industrialized World.**
Cr. 3. A regional survey of the so-called "Third World." The emphasis is on cultivation of a cosmopolitan sensitivity to and respect for cultures other than our own. This course may be used to fulfill a part of the Social Analysis component and the Global Cultures and Perspectives component of the General Education Requirements.

**GEO 104. Geomorphology.**
2-4, Cr. 4. The scientific analysis of natural processes and human impacts affecting the development of landscapes on the earth and other planets. Emphasis is on the interrelationships of geologic, climatic, hydrologic and biological cycles in creating and shaping landforms. Field trips. This course may be used to fulfill four credit hours of the Natural Science component of the General Education Requirements. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

**GEO 115. Map Analysis and Interpretation.**
2-3, Cr. 3. An introduction to the fundamentals of map analysis and interpretation, with emphasis on their properties, coordinate systems, and projection. Utilizing a number of laboratory exercises, some computerized, the course examines a variety of map types (from topographic and weather maps to thematic maps) and forms (from paper maps to satellite images and internet maps). Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

**GEO 200. American Ethnic Geography.**
Cr. 3. An analysis of the rich ethnic diversity of the United States, including the immigration and regional settlement of each of the major cultural groups and their physical expression on the North American Landscape. Topical themes include language, religion, politics, and urban imprints. This course may be used to fulfill a part of the Social Analysis component and the U.S. Diversity component of the General Education Requirements.

**GEO 201. Economic Geography.**
Cr. 3. An analysis of the location of economic activities as parts of a system. Prerequisite: sophomore standing or above. This course may be used to fulfill a part of the Social Analysis component of the General Education Requirements.

**GEO 210. Current Themes in Geography.**
Cr. 1-3. This course is designed to examine current geographic topics. These may include American minority settlement patterns and communities, cultural ecology, national parks, geographic techniques, the American Indian, travel and tourism, medical geography, and problems associated with the physical environment. May be repeated when the topic is different. The three-credit course extends throughout the semester, the two-credit course for seven weeks.

**GEO 215. Introduction to Geographic Information Systems.**
2-2, Cr. 3. An introduction to the theory and practical use of geographic information systems. These power research tools combine computer mapping and databases to provide diverse combinations of spatial information and modeling capabilities to enhance decision-making processes and planning. GIS usage is also highly multidisciplinary; the class may be of interest to students of several other programs such as civil engineering, biology, business, health sciences.

**GEO 225. Cartography.**
2+2, Cr. 3. An introduction to cartographic history and techniques and the composition and construction of maps, with a focus on the contributions of both manual and computerized techniques to modern map design. Prerequisite: GEO 115.

**GEO 230. Remote Sensing.**
Cr. 3. An introduction to the fundamentals of earth analysis in geography and meteorology using digital and photographic data acquired by a variety of aircraft and satellite sensors. Topics include image interpretation and processing, photogrammetry, change analysis, and environmental monitoring. May be of interest to students in biology, environmental science and civil engineering.

**GEO 260. Environmental Conservation.**
Cr. 3. A study of American and International resource problems and environmental issues, the institutions and attitudes involved and solutions for correcting them.

**GEO 274. North American Indian on Film.**
Cr. 3. Through history, plays, novels, and film, this course helps us to understand distinctive features of Native American life as understood by Native Americans. It dispels common myths about Native Americans, examines the struggle of different tribes to maintain their identities, and provides insights into their values and religious beliefs. May be used to fulfill the U.S. Diversity component of the General Education Requirements.

**GEO 301/501. Regional Geographies of the World.**
Cr. 3. A geographic interpretation of the environmental, cultural, political, and economic patterns of one of the world's major regions, such as the United States and Canada, Latin America, Europe, Asia, or Africa. May be repeated for credit when the regional offering is different. Certain regional offerings may satisfy the Global Diversity component of the General Education Requirements. Prerequisite: junior standing or consent of the Chair.

**GEO 318. Field Study in European Geography.**
Cr. 3. Overseas Study Program only.

**GEO 320. Urban Geography.**
Cr. 3. A course treating urban settlements as geographic units. Topics covered include the history of urban settlement, economic classification of cities and patterns of urban land use. Field trip. Prerequisite: junior or senior standing.

**GEO 321. Urban and Regional Planning.**
Cr. 3. A course treating the nature, purposes and objectives of modern community planning for the promotion of social and economic well-being. Field trip. Prerequisite: junior or senior standing.

**GEO 360. Statistical Analysis in Geography.**
Cr. 3. A course designed to teach the techniques of data collection and quantitative analysis. Prerequisite: junior or senior standing.

**GEO 361. Research Design.**
Cr. 3. A course in the methods of research. Each time the course is offered, a different topic is selected for examination. Normally topics deal with current problems of Northwestern Indiana. The results of the class research frequently contribute to the solution of the problem studied. Prerequisite: junior or senior major or permission of the instructor.

**GEO 385/585. Field Study.**
0-4, Cr. 2-3. A course designed to develop methods and techniques of geographic field work. May include a week of intensive work at a field site at a time when University is not in session, possibly in late summer. Additional fees may be charged to cover expenses. Prerequisite: consent of the Department Chair.

**GEO 416/516. Advanced Geographic Information System.**
Cr. 3. A course in research design and execution using GIS. Students will enhance their knowledge of GIS packages and advanced operations while researching a topic or problem. Individual and/or class projects will also focus on designing research for GIS. Prerequisite: GEO 215.

**GEO 466/566. Profession of Geography.**
Cr. 3. This course treats the nature of geography as a professional field through readings, papers, presentations, and discussions. Topics covered include the history of the discipline, the variety of geographic subfields, the growth of GIS and computer applications, the proliferation of geographic resources on the Internet, and the overall "state of the art." Prerequisite: junior or senior standing.

**GEO 470/570. Political Geography.**
Cr. 3. An investigation of the relations among political activities and organizations and the geographic conditions within which they develop. Political power is discussed in terms of spatial, human, cultural and ethnic geography. May be of interest to political science majors.

**GEO 474/574. Historical Geography of the United States.**
Cr. 3. A regional treatment of the exploration, colonization, territorial expansion, migration, transportation, settlement and economic development of our country in relation to the physical environment. Course is primarily designed for students majoring in one of the social sciences. Prerequisite: junior or senior standing. May be of particular interest to history majors.

**GEO 486. Internship in Geography.**
Cr. 1-6. Students gain experience by working in public or private agencies, such as planning firms, national parks and map companies. Prerequisites: geography major or minor and consent of internship coordinator. 500 level only.

**GEO 500/590. Selected Topics in Geography.**
Cr. 1-3. Advanced studies in geography. Such topics as landform analysis, human environmental impact, biogeography, environmental management, and international business are considered. May be repeated when the topic is different. Prerequisite: junior or senior standing.

**GEO 495. Independent Study.**
Cr. 1-4. Individual research readings on a topic in geography agreed upon by a student and a faculty member of his/her choice from the Department. Prerequisites: junior or senior standing and consent of the Chair of the Department.
Geography and Meteorology

MET 103. Meteorology.
2+4, Cr. 4. An introductory course providing a general overview of atmospheric science with emphasis on mid-latitude cyclones and anticyclones, air masses, atmospheric stability, precipitation processes and convection. This course may be used to fulfill four credit hours of the Natural Science component of the General Education Requirements. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

MET 215. Climatology.
2+2, Cr. 3. A study of the scope and controls of climate and an investigation of the global, regional and local scales. Included are climate classification, climate models and climate change. Prerequisite: MET 103 or consent of the instructor.

MET 216. Introduction to Meteorological Observation and Analysis.
Cr. 3. Introduces the student to upper-air, surface and radar observation codes; elementary techniques of surface and constant pressure map analysis; case studies of various examples: Introduction to atmospheric observing systems, emphasizing those being phased in by the National Weather Service, including conventional and Doppler radar, satellite interpretation, wind profiler systems, ASOS, and McIDAS. Prerequisite: MET 103 and MATH 131 or 151.

MET 279. Severe Storm Prediction and Nowcasting.
Cr. 3. Introduces the student to the structure of supercell and multicell thunderstorms and tornadoes, as well as their synoptic or mesoscale environments. Examines current methods of forecasting convective weather systems. Prerequisite: MET 216.

MET 290. Topics in Meteorology.
Cr. 1-3. Seminar in selected meteorological topics appropriate for more intensive investigation at the intermediate level, with an emphasis on the relationship between meteorology and other disciplines. Topics may include remote sensing, natural hazards, and meteorology in the humanities or social sciences. May be repeated for credit if the topic is different. Prerequisite: MET 103 or consent of instructor.

MET 319. Tropical Meteorology.
Cr. 3. Introduction to the synoptics and dynamics of tropical weather systems, including their interaction with and influence on the global circulation. Topics include oceanic current systems, monsoons, tropical cyclones, ENSO, and local/mesoscale circulations. Prerequisite: MET 216 and MATH 131 or 151.

Cr. 3. An introduction to computing in an atmospheric science context. FORTRAN programming in Windows and UNIX environments is used to analyze meteorological processes such as convention, advection, phase changes, etc. Additional programming languages may be included as appropriate. Prerequisite: MET 216.

MET 369/569. Atmospheric Thermodynamics.
Cr. 3. Survey of the atmospheric system, including basic characteristics and variables; radiation thermodynamics; vertical temperature structures; stability concepts and evaluation; physics of clouds and precipitation processes. Prerequisites: MATH 253 and MET 216.

MET 372/572. Atmospheric Dynamics I.
3+2, Cr. 4. A general survey of the fundamental forces and laws that govern atmospheric processes, particularly those motions associated with weather and climate. Emphasis are on the applications of the basic equations of motion, atmospheric thermodynamics, gradient and geostrophic flow, and the general circulation. Prerequisites: MATH 253 and MET 216.

MET 373/573. Atmospheric Dynamics II.
3+2, Cr. 4. Second semester dynamics course emphasizing quasi-geostrophic dynamics: wave motions, barotropic and baroclinic instabilities; cyclones, air masses, fronts and frontogenesis, various development theories; cyclone climatologies, jet streaks, and secondary thermal circulations. Laboratory case studies and exercises. Prerequisite: MET 372.

MET 388/588. Field Study in Meteorology.
0-4, Cr. 3. Field work emphasizing aspects of meteorological analysis and forecasting. Topics include severe storm prediction, spotting and interception and aviation meteorology. May be repeated for credit if the topics are different. Additional fees charged to cover expenses.

MET 480/580. Synoptic Scale Analysis and Forecasting.
3+2, Cr. 4. Historic perspective of the extratropical cyclone; air masses and frontal systems; formation and growth of extratropical cyclones; distribution of cyclones and cyclone tracks; basic satellite interpretation; operational forecast models; forecasting rules of thumb; selected case studies; forecast problems, including space and time considerations. Students prepare and present forecasts and answer public inquiries via a weatherphone service. Prerequisites: MET 216 and 373.

MET 481/581. Mesoanalysis and Forecasting.
3+2, Cr. 4. Introduction to mesoscale meteorology and analysis, classification and forecasting challenges; analysis techniques; mechanica lly/mixedly driven circulations, including land-sea breezes and lake effect snow; downslope flows; synoptic setting for severe weather; atmospheric stability; analysis and forecast procedures; convection theory; thunderstorm models, isolated convective systems, organized convective systems and tornadoes; atmospheric discontinuities; drylines, outflow boundaries, fronts; introduction to atmospheric observing systems. Prerequisite: MET 480.

MET 486/586. Internship in Meteorology.
Cr. 1-6. Students gain experience by working in National Weather Service offices, government laboratories, private consulting firms, or media and broadcasting stations. Prerequisites: meteorology or broadcast meteorology major and consent of internship coordinator. S/U grade only.
History

Professors Austensen, Berg, Rubchak; Associate Professor Schaefer (Chair); Assistant Professors Seguin, Whitefield; Lecturer Bloom.

One of the central disciplines of the traditional liberal arts, history is concerned with understanding the development of societies and cultures which produced the world as we know it. The historian operates under the assumption that the past is of fundamental importance in today's decision-making and in formulating tomorrow's dreams. History provides a solid major for those with career goals in law, teaching, journalism, government and the ministry. Combining a history major with a Liberal Arts Business Minor has proved to be a popular alternative for those who have strong interests in history and who plan to pursue a business career. Since the history student integrates materials from the social and behavioral sciences, literature, philosophy, religion and the arts, history is also a field for students who view the undergraduate years as a time to explore a variety of subjects.

Major. A minimum of 30 credit hours in history constitutes a major. Courses must include HIST 200, 210, and 493. Twelve hours of the major must be taken in courses numbered 300 or above in addition to those listed; for these twelve hours the student must elect at least one course in each of the following fields:

- History of the Americas, European history, Non-Western history.
- Students who plan on graduate work in history are strongly urged to acquire reading proficiency in at least one modern foreign language.

Minor. A minimum of at least 18 credit hours in history constitutes a minor. Courses must include HIST 200 and 210. Nine of the remaining hours must be in courses numbered 300 or above, one course from each of the three fields listed under the major.

Degree. Completion of the degree requirements of the College of Arts and Sciences with a major in history leads to the Bachelor of Arts degree.

Pre-Law Students. Prelaw students who are taking a major in history should consult their adviser about appropriate course selections and about the selection of a second major or a minor.

Credit by Examination. Credit for HIST 200 and 210 may be earned through the College Level Examination Program subject examination in Western Civilization or through the Advanced Placement examination offered by the College Entrance Examination Board.

Approval of Schedules. Students taking a major or minor in history must have their schedules approved by the Chair of the Department each semester. In addition, each class of majors is assigned to a member of the Department for advising.

Note: The survey courses, HIST 200 through 250, may be used to fulfill the Philosophical and Historical Studies component of the General Education Requirements. HIST 232, 240, 242, and 250 may be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

HIST 200. Developments in Western Culture through the Ages. Cr. 3. A study of the social, intellectual, cultural, and political history of the Western world from ancient Greece to the eve of World War I.

HIST 210. The World in the Twentieth Century. Cr. 3. A survey of modern Western and non-Western history. Particular emphasis is placed on the development of the various world civilizations in recent centuries and on the interaction that has occurred among them.


HIST 220. The American Experience to 1877. Cr. 3. A survey of American history from the Columbian exchange through the end of Reconstruction, with emphasis on cultural contact, democratic ideals and realities, western expansion, and sectional conflict.

HIST 221. The American Experience in the Modern World. Cr. 3. A survey of American history from Reconstruction to the present, with emphasis on industrialization, reform movements, immigration, civil rights, and global wars.

HIST 225. Alternative Perspectives of United States History. Cr. 3. An examination of oppression, resistance, and identity formation in African American, American Indian, Latino, or Asian American culture. This course may be repeated for credit if the selected subjects are different. Although history majors may take any number of these courses, they may include no more than two in a thirty-hour major. May be used to fulfill the U.S. Diversity component of the General Education Requirements.

HIST 232. Survey of Latin American History. Cr. 3. A survey of Latin American history, encompassing indigenous civilizations, the Spanish colonial period, and national histories, with emphasis on enduring colonial patterns in the region's government, economy, gender and race issues, and church-state relations. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

HIST 240. Introduction to East Asian Culture. Cr. 3. An exploration of the main political, social, and cultural values in traditional China, Japan, Korea, and Vietnam and of the ways that they flourish today. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

HIST 250. African History and Society. Cr. 3. A survey of pre-colonial and colonial African history that highlights the diversity of African societies. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

HIST 251. Survey of English History and Culture. Cr. 3. A survey of English life from Roman times to the present, emphasizing broad movements, themes and institutions. Cambridge Center.

HIST 352. Problems in Modern German History. Cr. 3. An examination of modern German history emphasizing selected problems. Reutlingen Center.

Note: The courses listed below require at least sophomore standing or consent of the Chair of the Department.

EUROPEAN HISTORY

HIST 304/504. European Imperialism and the Colonial Experience. Cr. 3. A study of European theories of imperialism will be investigated as they were implemented in specific colonies throughout the Americas, Africa, Eurasia, and Asia. Particular attention will be given to the historical and psychological experience of being colonial master or servant by drawing on film, novels, and post-colonialist literature. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

HIST 310/510. Greek Civilization. Cr. 3. (Also offered as CLC 310.) A study of Greek civilization from the late Bronze Age through the Hellenistic period, with emphasis on political, social, and cultural developments. No knowledge of Greek or Latin required. Prerequisite: sophomore standing or consent of the Chair of the Department. This course may be used to fulfill the philosophical and Historical Studies component of the General Education Requirements.

HIST 311/511. Roman Civilization. Cr. 3. (Also offered as CLC 311.) A study of Roman civilization from the 8th century B.C. to the Council of Nicea in A.D. 325, with emphasis on political, social, and cultural developments. No knowledge of Greek or Latin required. Prerequisite: sophomore standing or consent of the Chair of the Department. This course may be used to fulfill the Philosophical and Historical Studies component of the General Education Requirements.

HIST 312/512. Europe in the Age of Reformation. Cr. 3. (Also offered as THEO 320/520.) A study of the political, socioeconomic and religious conditions in Europe during the Reformation movements of the sixteenth century, with emphasis on popular piety, gender relations, and missionary activity.

HIST 313/513. History of Modern Britain. Cr. 3. An overview of British history from the Glorious Revolution to the present. Particular attention is given to industrialization, sex and gender in the Victorian era, social reform, imperialism, Anglo-Irish relations, and World Wars I and II.

HIST 315/515. Contemporary Europe: Century of Violence. Cr. 3. A study of twentieth-century Europe, with emphasis on relations between Nazi Germany and Europe, including the USSR and the United...
HIST 316/516. The Great Witchcraft Delusion.
Cr. 3. A study of the social, cultural, economic, religious, and political aspects of the early modern European witchhunt. It includes the formation of the concept of witchcraft, the systematization of beliefs, and methods of persecution.

HIST 319/519. Imaging Revolution in Modern Russia.
Cr. 3. Visual and literary representation of twentieth-century Russia supplemented by historical narrative. It begins with the Russian Revolution, moves through the "Stalin Revolution," to the demise of Stalin himself.

HIST 460/560. The Old Regime and the French Revolution.
Cr. 3. A detailed study of the causes and effects of the French Revolution. Topics discussed include the Enlightenment, social conditions, the monarchy, human rights, and the Napoleonic Era. Seminar discussions will be based on both primary and secondary source readings.

HIST 320/520. Colonial America.
Cr. 3. A detailed study through readings and discussion of the major issues in colonial life. Topics will range from contact with Native Americans, to the Salem witch trials, to the origins of slavery. Students will examine European settlement patterns in the four regions of British North America, including family, religious, and political life. The course will conclude by studying the social, military, and political strain placed on colonial institutions by the Seven Years' War.

Cr. 3. A detailed study through readings and discussion of the unresolved conflicts between Great Britain and her American colonies; the political, military and social aspects of the revolution; and the postwar problems culminating in the adoption of the Constitution.

Cr. 3. A detailed study through readings and discussion of the institution of slavery, the growth of abolitionism and other reform movements, and the development of sectionalism leading to the outbreak of the Civil War.

HIST 323/523. Civil War and Reconstruction.
Cr. 3. A study of the great watershed conflict in American history, with special emphasis on the problems of Black Americans.

Cr. 3. This course examines the nature of the Great Depression and its effects on the relationship of government to citizens in the United States. It also traces the European and Far Eastern origins of the American involvement in World War II, and the diplomatic and military conduct of that war.

Cr. 3. An examination of the post war American response to the prospect of living in an uncertain world.

Cr. 3. A study of the relationship between ideas and power in Latin America. Using primary sources and important works that have conditioned the way Latin Americans view their world, the course looks at the intellectual impact of the European discovery of America, the nature of the new world, the nineteenth century idea of progress, and the significance of modernism, indigenismo, Marxism, anarcho-syndicalism, and liberation theology. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

Cr. 3. A study of the nature of post-World War II American culture through the examination of a cross section of its critics. Course materials include writings of poets, novelists, essayists, and journalists as well as collections of photos, documentaries, and commercial films.

NON-WESTERN HISTORY

Cr. 3. A study of the decline of traditional civilization resulting from domestic crises and foreign pressures, and the search for a new orthodoxy in the Chinese revolution. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

Cr. 3. A study of Japan's rise to its position as a world power, the tragedy of the war period, and its triumph as an economic power in the postwar world. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

Cr. 3. A topical study of Africa's struggle for political, economic, and cultural identity in the twentieth century with emphasis on exploring new historiographical methods emerging in African/world history. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

HIST 355. Modern Middle Eastern History.
Cr. 3. A retrospective look through documents, films, and literature at the history of the region beginning with the rise of Islam and the legacy of early splinter movements that profoundly impact twentieth century history. Particular attention is given to the breakup of the Ottoman Empire and the rise of Zionism in order to contextualize the Arab-Israeli conflict. Lastly, individual countries are studied to enhance understanding of the Middle East's influence on international affairs. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

HIST 393/593. History through Film.
Cr. 3. A study of the relationship among history, film, and theory in a specific geographical and chronological context. This course may be repeated for credit if the selected subjects are different. Although history majors may take any number of these courses, they may include no more than two in a thirty-hour major.

SPECIALIZED OFFERINGS

HIST 386. Internship in History.
Cr. 3. Students gain experience working for an organization that utilizes historical applications. Such organizations might include historical museums and historical parks. Prerequisite: junior standing and application in writing to department chair a semester in advance.

HIST 390/590. Topics in History.
Cr. 3. A study that covers a particular, large subject in history (e.g., a period or a field, selected according to student interest and instructor choice). This course may be repeated for credit if the selected subjects are different. Although history majors may take any number of these courses, they may include no more than two in a thirty-hour major.

HIST 489. The Teaching of Social Studies.
Cr. 3 (See ED 489). A study of methods of teaching social studies in secondary schools. A field component is required. Prerequisite: admission to Teacher Education. This course may not be counted toward a major or minor in the Department.

HIST 492/592. Reading and Discussion Seminars.
Cr. 2-3. Full-or half-semester courses cover a variety of subject areas with subtitles and content dependent on student interest and instructor choice. In recent years these have included Slavery in the Americas, History of the American South, American Environmentalism, Pearl Harbor, American Immigration History and Cuban Revolution. This course may be repeated for credit if topics are different. Prerequisite: junior or senior standing or consent of the Chair of the Department.

HIST 493. Research Seminars.
Cr. 3. These are full-semester courses designed for majors, but also open to other students with junior or senior standing. They offer intensive research in both primary and secondary sources and instruction in historical methodology. A major paper constitutes the largest part of the semester's work. This course may be repeated for credit if the topics are different. Prerequisite: history major with junior or senior standing. Offered in the fall semester only.

HIST 499. Supervised Study.
Cr. 2-3. An opportunity for students to read a number of significant works on a given topic in history, or to do research and write a major paper on a topic not covered in any scheduled offering of the Department. Open to students who have taken at least eighteen credit hours of history and who have obtained the prior consent of both the instructor and the Chair of the Department. This course may be taken only once from a given instructor, only once per subject area and only once for a thirty-hour major.

HIST 497. Honors Work in History.
Cr. 3. See Honors Work, page 53.

HIST 498. Honors Candidacy in History.
Cr. 3. See Honors Work, page 53.
International Economics and Cultural Affairs

**Administrative Committee:**
- Professor Trost (Political Science)
- Associate Professors Ames (Foreign Languages and Literatures), Duvick (Foreign Languages and Literatures, Chair), Kilpinen (Geography and Meteorology); Assistant Professors Kavanagh (Foreign Languages and Literatures), Raman (Economics),

Students who complete the International Economics and Cultural Affairs Program will have fulfilled major area requirements for the Bachelor of Arts degree under the Interdisciplinary Program Option.

**Objectives.** This interdisciplinary program, with a focus on Europe, Latin America, or Asia, is designed to provide a foundation in a modern language and the culture and customs of those who speak it, instruction in international economics, and a survey of appropriate areas of geography, history, and political science. Students interested in pursuing the International Economics and Cultural Affairs Program should confer with the Chair of the Administrative Committee.

Qualified students are encouraged to consider the following Cooperative Education courses:
- FLF 481, FLGR 481, FLJ 481, or FLS 481.

**Requirements.** A minimum of 54 credit hours in courses approved by the Administrative Committee. Courses must include Foreign Language and Literature, 17-18 credit hours beyond course number 203 (or 19 credit hours in Japanese or 19-21 credit hours in Chinese); Economics, 15 credit hours; appropriate courses in Geography, History, and Political Science, 18 credit hours. See course listing below.

A senior seminar of one credit (IECA 493) in the fall semester is followed in the spring semester of the senior year by a senior research project earning 3 credits (IECA 496). Honors Work may be undertaken in International Economics and Cultural Affairs with appropriate approval. Students should register for Honors Work in International Economics and Cultural Affairs (IECA 497), and Honors Candidacy in International Economics and Cultural Affairs (IECA 498) (see page 53).

Any departmental major or departmental minor may be added to the International Economics and Cultural Affairs program, with the exception of an Economics minor and a Foreign Language minor.

**Foreign Language and Literature**

Choose one of the following language options:

**CHINESE**
- FLG 101 Beginning Chinese I or
- EAST 109 Intensive Elementary Chinese, 4-6 Cr.
- FLG 102 Beginning Chinese II or
- EAST 110 Intensive Elementary Chinese: Conversation, 4-5 Cr.
- FLG 203 Intermediate Chinese I or
- EAST 209 Intensive Intermediate Chinese, 4-5 Cr.
- FLG 204 Intermediate Chinese II or
- EAST 210 Intensive Intermediate Chinese: Conversation, 4-5 Cr.
- FLJ 250 Topics in Japanese Literature and the Fine Arts or
- FLJ 251 Introduction to Japanese Literature or
- EAST 399 Chinese Culture and Civilization, 3 Cr.

**FRENCH**
- FLG 204 French Composition and Conversation I, 4 Cr.
- FLG 232 French Civilization from 1870 to the Present, 3 Cr.
- FLJ 250 Topics in French Literature and the Fine Arts or
- FLJ 222 French Literature from 1800 to the Present, 3 Cr.
- FLJ 306 Contemporary French Language and Communication, 4 Cr.
- FLG 307 Professional French, 3 Cr.

**GERMAN**
- FLGR 204 German Composition and Conversation I, 4 Cr.
- FLGR 232 German Civilization since 1800, 3 Cr.
- FLGR 250 Topics in German Literature and the Fine Arts or
- FLGR 222 Selected Readings in German Literature since 1800, 3 Cr.
- FLGR 306 Contemporary German Language in the Mass Media, 4 Cr.
- FLGR 307 Professional German, 3 Cr.

**JAPANESE**
- FLJ 101 Beginning Japanese I, 4 Cr.
- FLJ 102 Beginning Japanese II, 4 Cr.
- FLJ 203 Intermediate Japanese I, 4 Cr.
- FLJ 204 Intermediate Japanese II, 4 Cr.
- FLJ 250 Topics in Japanese Literature and the Fine Arts or
- FLJ 251 Introduction to Japanese Literature, 3 Cr.

**SPANISH**
- FLS 204 Spanish Composition and Conversation, 4 Cr.
- FLS 230 Spanish Civilization or
- FLS 231 Spanish-American Civilization, 4 Cr.
- FLS 250 Topics in Spanish History and the Fine Arts, 3 Cr.
- FLS 306 Contemporary Hispanic Society Through Communications, 4 Cr.
- FLS 307 Professional Spanish, 3 Cr.

**ECONOMICS**
- ECON 221 Principles of Economics-Macro, 3 Cr.
- ECON 222 Principles of Economics-Micro, 3 Cr.
- ECON 236 Comparative Economic Systems, 3 Cr.
- ECON 326 International Economics, 3 Cr.
- ECON 336 Economics of Developing Nations, 3 Cr.

**Geography**
- GEO 201 Economic Geography, 3 Cr.
- GEO 301 Regional Geographies of the World (Appropriate regional offering), 3 Cr.

**History**
- HIST 232 Survey of Latin American History, 3 Cr.
- HIST 301 Germany and Power in Latin American History, 3 Cr.
- HIST 302 Topics in History (when topic is Latin America), 3 Cr.
- HIST 210 The World in the Twentieth Century and HIST 315 Contemporary Europe: Century of Violence, 6 Cr.
- HIST 341 Revolution and Its Roots: The Making of Modern China, 6 Cr.

**Political Science**
- POLS 130 Comparative Politics or
- POLS 230 International Relations, 3 Cr.
- POLS 330 Politics of Industrialized States or
- POLS 335 Politics of Developing States, 3 Cr.

**IECA 486. Internship.**
- Cr. 1-4. Direct, supervised experience in a cooperating business, government agency, or service agency, abroad or in the United States. Prerequisite: consent of the Chair of the Program.

**IECA 493. Senior Seminar.**
- Cr. 1. A course required of all senior majors in International Economics and Cultural Affairs in which students explore a central topic, learn research methodology, and prepare the proposal and outline for their senior independent research project (IECA 495). Prerequisite: senior standing or consent of the Chair.

**IECA 495. Senior Independent Research Project.**
- Cr. 3. Senior IECA majors write a major research paper on a topic identified in IECA 493, Senior Seminar. Prerequisite: IECA 493, and senior standing or consent of the Chair.

**IECA 497. Honors Work in International Economics and Cultural Affairs.**
- Cr. 3. See Honors Work, page 53.

**IECA 498. Honors Candidacy in International Economics and Cultural Affairs.**
- Cr. 3. See Honors Work, page 53.
International Service

Administrative Committee: Professor Trost (Political Science); Associate Professors Evans (Biology), Kilpinen (Geography and Meteorology), Schaefer (History), Walton (Social Work).

Students who complete the International Service Program Major of 50-51 credits will have fulfilled major area requirements for the Bachelor of Arts degree under the Interdisciplinary Program Option.

Objectives. This interdisciplinary program is designed for students considering careers with international humanitarian and development organizations and agencies or students who wish to equip themselves for international service as they prepare for a different primary career. It provides background in the concept of service, in social policy and global issues, and in the learning and practice of service.

Program requirements. A minimum of 50 credit hours in courses approved by the Administrative Committee. Courses must include the Introductory Courses (6 credit hours), the Service Learning Core (3 credits of Political Science, 6 credits of Social Work and 9 credits of Theology), the Regional Emphasis (7-8 hours of Foreign Language beyond course number 103 and 6 credits in one Area Studies concentration), and the Support Core (6 credit hours). See course listing below. Additional regional or support core courses may be approved by the Chair on an ad hoc basis.

Majors are required to do the International Service-Learning Internship (ISP 486) for three credits, and if the internship is abroad, must participate in preparation and reentry instruction for the internship (GLST 484 and GLST 485). The Senior Seminar is required in the senior year.

Complementary Major. A student fulfilling major field requirements under a Major Option in another field may present as a second major the International Service Complementary Major of a minimum of 29 credit hours. Courses must include GLST 150, SOCW 210 and 330, two courses from the Theology of Service Issues and Theory category, the Regional Emphasis (Foreign Language course 203 or 204 and 3 credits from an Area Studies concentration), and one Support Core course (3 credits). See course listing below.

Complementary majors take the International Service-Learning Internship for from 1 to 3 credits, and if the internship is abroad, must participate in preparation and reentry instruction for the internship (GLST 484 and GLST 485), and must take the Senior Seminar in the senior year.

Introductory Courses

GLST 150 Global Perspectives 3 Cr.
ECON 138 Economics of Health, Education, and Welfare 3 Cr.

Service Learning Core

POLS 230 International Relations 3 Cr.
SOCW 210 Social Welfare: Policy and Services 3 Cr.
SOCW 330 Vulnerable Populations 3 Cr.
Theology of Service Issues and Theory (select two courses):
THEO 330 Topics in Contemporary Theology 3 Cr.
THEO 337 Black Theology and Black Church 3 Cr.
THEO 353 Studies in Theology and Practice (Christian Faith and Contemporary Politics; Christian Response to Social Victims) 3 Cr.
THEO 357 The Church in the World 3 Cr.
THEO 451 Theology of Diaconal Ministry 3 Cr.
THEO 490 Topics in Theology (when topic is approved) 3 Cr.
Theology of World Religions (select one course from this category or an additional course from the above category): THEO 362 Understanding Islamic Religion and Culture 3 Cr.
THEO 363 Religions of China and Japan 3 Cr.
THEO 364 The Buddhist Tradition 3 Cr.
THEO 365 Religion in Africa 3 Cr.

Regional Emphasis

Foreign Language appropriate for the region: French, German or Spanish 204 and 3 Cr.
One elective numbered above 204 3-4 Cr.
Chinese or Japanese 203 and 4 Cr.

Two courses with the same regional focus as the foreign language:

EUROPE
HIST 315 Contemporary Europe/20th Century of Violence 3 Cr.
HIST 392 Problems in Modern German History (Reutlingen) 3 Cr.
GEO 301 Regional Geography: Europe 3 Cr.
POLS 330 Politics of Industrialized States 3 Cr.
FLF 232 French Civilization from 1870 and must take the Senior Seminar in the senior year.

LATIN AMERICA
HIST 232 Survey of Latin American History 3 Cr.
or HIST 331 Ideas and Power in Latin American History 3 Cr.
or FLS 231 Spanish American Civilization 3 Cr.
GEO 301 Regional Geography: Latin America 3 Cr.
POLS 339 Politics of Developing States 3 Cr.
FLS 280 Hispanic Literature and Arts 3 Cr.
SOC 330 Points of Intersection (Puebla) 3 Cr.

AFRICA
GEO 301 Regional Geography: Africa 3 Cr.
HIST 250 African History and Society 3 Cr.
HIST 350 Modern African History 3 Cr.
POLS 490 Topics (when topic is Africa) 3 Cr.

National Service-Center (appropriate course) 3 Cr.

ASIA
HIST 240 Introduction to East Asian Culture 3 Cr.
or HIST 341 Revolution and its Roots: The Making of Modern China 3 Cr.
or HIST 342 Tragedy and Triumph: The Making of Modern Japan 3 Cr.

GEO 301 Regional Geography: Asia 3 Cr.
POLS 490 Topics (when topic is Asia) 3 Cr.

Support Core

Each student develops a support core in consultation with the ISP adviser. The following courses have prior approval (courses with an asterisk have prerequisites):

BIO 206 Fundamental Nutrition 3 Cr.
BIO 210 Human Nutrition* 3 Cr.
ECON 223 Principles of Economics-International 3 Cr.
ECON 233 Economics of Race and Gender 3 Cr.
ECON 236 Comparative Economic Systems 3 Cr.
ECON 329 International Economics* 3 Cr.
ECON 336 Economics of Developing Nations* 3 Cr.
ENGL 389 Teaching English as a Second Language 3 Cr.
PHIL 220 Non-Western Philosophy 3 Cr.
POLS 360 Public Administration* 3 Cr.
PSY 390 Topic: Cross-Cultural Psychology 3 Cr.
SOC 347 Race and Ethnic Relations 3 Cr.
NUR 311 Global Health Issues 3 Cr.

ISP 485 The International Experience-Reentry 0.5 Cr.
ISP 486 International Service-Learning Internship 1-3 Cr.
ISP 493 International Service Senior Seminar 3 Cr.

GLST 150. Global Perspectives.
Cr. 3. An interdisciplinary introduction to the concept of culture from both the Western and non-Western view, to the meaning of culture for the development of religious, economic, political, and social institutions, and to the significance of cultural perspective in approaching global issues. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

GLST 484. The International Experience: Preparation.
Cr. 5. Preparation for the International Service Learning Internship or other international study semester through reading, discussion and experience with cross-cultural perspectives, stereotypes, and problems. Last eight weeks of the semester.

Cr. 5. A debriefing of the students' international experience in order to process, focus, and interpret what they have learned. Discussion, reading, and interaction with students preparing for an international study semester. First eight weeks of the semester.

Cr. 1-3. Students gain experience through placement with an organization or agency involved in international service. Prerequisites: junior standing and application in writing to the Chair one semester in advance. Generally taken concurrently with a study-abroad semester. SU grade only.

ISP 493. International Service Senior Seminar.
Cr. 3. Research, discussion, and writing on a topic central to international humanitarian concerns. Required of all senior majors and complementary majors. Prerequisite: senior standing or consent of the Chair.
Mathematics and Computer Science

Professors Caristi, Gillman (Chair), Marion; Associate Professors Hull, Hume, J. Lehmann, Pearson, Sullivan, Treanor, Wagenblast; Assistant Professors Glass, Limmer (Visiting), Luter, Szansilo; Instructor Whitehead.

Mathematics is the disciplined form of communication which serves both to lend structure to scientific, engineering and economic principles, and to provide a beauty of formalism in its own right. It is characteristic that many important mathematical discoveries have been made by scientists, while at the same time pure mathematics has opened up unexpected new advances in science.

As a data processing tool, the computer has made possible extending both numerical manipulation and forms of language communication far beyond ordinary human capabilities. Computing has developed languages of its own to ease the human-machine interface. Learning how best to use these languages and to design strategies for problem solving are major objectives of computer science. Computer science also studies computer design and computer architecture and the integration of computer components into systems.

Careers in mathematics include statistical analysis, education, scientific, industrial, and mathematical research, operations research and actuarial science. Students can prepare themselves for the first two actuarial examinations by completing an appropriate sequence of courses. Careers in computer science include systems programming, applications programming and data management.

Mathematics

Major. A minimum of 36 credit hours in mathematics constitutes a major. Students must complete the core, survey elective, theory electives, and advanced electives as specified below:

Core: MATH 131 or 151, 152, 264, 265, 399, 499.

Survey Elective: MATH 240, 253, or 269.

Theory Elective: MATH 451, 461, or 421.

Advanced electives: Three additional courses of 3 credits or more numbered above 300.

Recommended Electives: Students interested in the following areas of study should choose the recommended electives.

Secondary Education: MATH 240; MATH 461, 421, (462 or 422); MATH 314, 312, and one more course.

Statistics: MATH 240; MATH 421, 422, (451 or 461); MATH 341, 342, 344.


Scientific Mathematics: MATH 253; MATH 451, 452, 461, MATH 430, 434, one more course.

Preparation for Mathematics in Graduate School: MATH 253; MATH 451, 452, 461, 462; MATH 434, one more course.

The Mathematics Club and Student Chapters of both the Mathematical Association of America and the Association for Computing Machinery involve students in extracurricular activities.

Minors. A minimum of 15 credit hours in mathematics, including at least 7 credits numbered above 220, constitute a minor in mathematics.

See page 225 for a description of the Applied Statistics Minor.

Teaching Programs. Students who plan to teach mathematics in secondary schools with a major or minor in Mathematics should consult the Chair of the Department and the Education Department for specific requirements.

Cooperative Education. Qualified students may combine semesters of professional experience with other semesters of traditional academic studies, usually lengthening their college education beyond the normal eight semesters. During the semesters of their employment, students are financially reimbursed by the cooperating employer and receive college credit.

This program normally commences at the end of the sophomore year and consists of two semesters plus three summers of full time employment with the same company. Two credits in mathematics are granted for each semester and one for each summer. These credits may not be counted toward the minimum required for the major and cannot replace required course work with the exception of MATH 399/499. To qualify, students must possess a minimum 2.50 cumulative grade point average and a 2.50 grade point average in all required Mathematics courses taken prior to participation in the program.

Placement and Special Credit.

Before registration, each new student will take a placement exam. The Department of Mathematics and Computer Science will recommend which course(s) each student should take. A student who is recommended for MATH 110 may not take another Mathematics or Computer Science course without the consent of the Chair of the Department. A student who is recommended for MATH 120 or MATH 114 may not take a Mathematics course numbered above 120 without the consent of the Chair of the Department.

Qualified students may also take a Calculus Placement Exam. A student who is placed into MATH 152 will receive 4 credits for MATH 151 and 4 credits for MATH 152 by passing MATH 152 with a grade of C or higher.

Mathematics

Credit by Examination. Credit for MATH 151 and 152 may be earned through the College Level Examination Program subject examination in Introductory Calculus.

Approval of Schedules. All students taking a major or minor in the Department must have their schedules approved by the Chair of the Department or his representative before registration each semester.

MATH 110. Quantitative Problem Solving. 2+2 Cr. 3. A course to assist students in developing fundamental mathematical concepts and processes. Emphasis placed on problem solving, reasoning, communication, and mathematical connections. Students recommended for this course should take it prior to enrolling in courses with quantitative content. This course is offered for S/U grade only and may not be used to fulfill the General Education Requirement in the College of Arts and Sciences or be counted toward a major or minor in mathematics. This course may not be taken by a student with credit for any other mathematics course.

MATH 114. Precalculus. Cr. 1-4. (See paragraph on Placement.) A course for students who plan to take a calculus sequence. Topics may include sets and numbers, relations and functions, trigonometric functions, exponential and logarithmic functions. This course may not be used to fulfill the General Education Requirement in the College of Arts and Sciences or be counted toward a major or minor in mathematics. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

MATH 120. Mathematical Ideas. Cr. 4. (See paragraph on Placement.) A one-semester course intended primarily for students majoring in the humanities. The relationship between mathematics and modern society is studied. Emphasis is placed on the development of mathematical concepts. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

MATH 122. Intuitive Calculus of One or More Variables. Cr. 4. (See paragraph on Placement.) A course for students with a good foundation in mathematics who are interested in mathematical models for the life, management or social sciences. Topics include limits, continuity, derivatives and their applications, integrals and their applications and selected topics in multivariate calculus. Not open to students with credit for MATH 131 or 151. Prerequisite: MATH 114 or placement of MATH 122, 131, or 151 on the math placement examination.
2+2 Cr. 3. A first course in algorithm development and problem solving and an introduction to the use of a computer system with special emphasis on object-orientation. The student designs algorithms for the solution of elementary problems, and writes, documents, and debugs programs for the implementation of those algorithms. Techniques used in software design and algorithm analysis are introduced. Students may not receive credit for both CS 157 and ECE 155. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

CS 158. Algorithms and Abstract Data Types.
2+2 Cr. 3. A continuation of CS 157, with emphasis on developing more skills in complex program development and data structures. Topics include stacks, queues and linked lists. Students design and write intermediate sized programs. Prerequisites: CS 157 or ECE 155.

Cr. 3. (Also offered as IDS 310.) This course offers an overview of potentials, policies, politics, possibilities, and pitfalls of electronic commerce (conducting business on-line) and electronic business (using information technology to manage the supply-chain, including hardware and software applications required for both. Prerequisite: junior standing and consent of the chair.

CS 220. Digital Logic Design.
2.5-0.5 Cr. 3. (Also offered as ECE 221.) An introduction to digital logic concepts, including the analysis and design of combinational and sequential digital circuits.

2+2 Cr. 3. Fundamentals of the structure of digital computers and an introduction to assembly language programming. Topics include machine instructions, data representation, addressing techniques and program segmentation and linkage. Corequisite: CS 158.

CS 257. Data Structures and Programming Languages.
Cr. 4. A more detailed study of data structure and programming paradigms used in a variety of languages. Topics include trees, graphs, hash tables, object oriented programming, non-incremental languages, syntax and basic characteristics of grammars, parsing and runtime considerations. Prerequisites: MATH 122 or 132 or 152, CS 158, MATH 168.

CS 288. Practicum in Computer Science.
Cr. 0.5-3. Intensive professional experience and/or technical training in a computing related field. A written report is required. Prerequisites: CS 257, CS 246 and consent of department chair. S/U grade.

CS 290. Topics in Computer Programming.
Cr. 1 (7 weeks) or 2 (semester). The content of this course may change from semester to semester, but is ordinarily a study of a computer programming language not covered in other Computer Science courses. Possible languages to be studied include Ada, C, Lisp, and Prolog. This course may be repeated for credit, provided that topics are different. Prerequisite: usually equivalent to CS 157. Specific requirements depend on course content.

CS 325. Simulation and Modeling.
Cr. 3. An introduction to computer simulation of mathematical models of discrete and continuous phenomena. Some standard simulations are examined, others implemented using a simulation language. Prerequisites: a course in calculus, a course in probability and statistics, and a course in programming.

CS 332. Databases and Artificial Intelligence.
Cr. 4. An introduction to information models and systems, including relational and object-oriented database management systems, data modeling, knowledge representation, problem spaces, models of reasoning, non-symbolic artificial intelligence, and other topics in intelligent systems. Prerequisite: CS 257.

CS 347. Operating Systems and Networking.
Cr. 4. Introduction to the concepts of operating system and networks. Topics include procedures, processes, resource management, interrupt-driven processing, protocols for communicating messages, such as Transport Control Protocol and User Datagram Protocol, error detection, methods for routing messages, application protocols, such as HTTP and SMTP. Prerequisites: CS 246 and 257.

CS 358. Software Design and Development.
3+2 Cr. 4. The specification, design, implementation, documentation, testing and management of software systems. Intensive work on a group project, directed by the instructor, to design and develop a usable software system. Students will also learn fundamentals of graphical and graphical user interfaces. Prerequisite: CS 257.

Cr. 3. A study of the fundamentals of interactive computer graphics systems and software. Emphasis is placed on graphics primitives, geometric transformation and projection, methods of creating visual realism, and selected graphics algorithms. Prerequisites: CS 158 or CS 257 is recommended and MATH 234 or 262 or 264.

Cr. 3. (Also offered as MATH 370i.) The analysis and implementation of basic numerical techniques: matrix methods for the solution of systems of equations, interpolating polynomials, finite differences, numerical differentiation and integration, numerical solution of differential equations, zeros of nonlinear equations and error analysis. Students are expected to solve problems using a digital computer. Prerequisites: CS 157 or the equivalent and one of the following: MATH 350; MATH 234 and 253; MATH 265.

CS 372. Computability and Computational Complexity.
Cr. 4. Emphasis on the limits to the power of computational processes and systematic analysis of the algorithms that harness it. Computability topics include the Chomsky hierarchy, several automata and language models, and demonstrations of uncomputable problems. Complexity topics include various design strategies such as greedy, divide and conquer and backtracking, and fundamental computing algorithms, such as searching, sorting, graphs, trees, pattern matching and computational geometry, with a short foray into distributed algorithms. Prerequisites: CS 267 and MATH 269.

CS 375. Theory of Computation.
Cr. 3. Basic principles of computer science in formal languages, automata, nondeterminism, regular expressions, context free grammars, Turing machines, the halting problem, and unsolvability. Prerequisites: CS 235 and MATH 267. Last offered Fall 2003.

CS 381. Cooperative Education in Computer Science I.
Cr. 0.5-3. The application of computer science concepts in a professional setting. Grade based on employer's evaluation and student's written and oral reports. Prerequisites: CS 257, approval of Cooperative Education Adviser and the Chair of the Department. S/U grade.

CS 382-383. Cooperative Education in Computer Science II-III.
Cr. 0.5-3. Continuation of CS 381. Prerequisites: CS 381 and approval of the Chair of the Department. S/U grade. May be repeated beyond 383 for additional credit.

Cr. 3. Problems and techniques associated with programming in systems with shared resources, e.g., operating systems and data base management systems. Topics include concurrent processes, communication and deadlock, queuing and scheduling, resource protection and allocation. Prerequisites: CS 347 and a course in probability and statistics. Offered upon sufficient demand.

CS 455. Theory of Programming Languages.
Cr. 3. Concepts used in the translation of programming languages and the design of computers. Topics include grammars, scanners and symbol table manipulation, parsers and pushdown automata and techniques of automatic code generation and improvement. Applications may include general purpose languages as well as special purpose languages such as database definition and inquiry languages. Prerequisites: CS 246 and 257 and MATH 269. Offered upon sufficient demand.

CS 458. Senior Project.
Cr. 3. The student defines a suitable computer application, develops the necessary software using appropriate techniques and presents a documentation for the use and support of the completed system. An oral report is required. Prerequisites: CS 358, senior standing and a proposal approved by the Chair of the Department.

CS 491. Advanced Topics in Computer Science.
Cr. 3. An advanced course for computer science majors. The topic studied may change from year to year. Possible topics: data communications and networks, supercomputers, parallel processing or computer architecture. Prerequisites: consent of the Chair of the Department. Specific course requirements and a topic. Offered upon sufficient demand.

CS 492. Research in Computer Science.
Cr. 3. The student undertakes a research problem in Computer Science under the direction of a faculty member. Written and oral reports are required. Prerequisites: CS 257 and 358 and a proposal approved by the Chair of the Department.

Cr. 2. Student and faculty presentations in the context of professionalism and ethical responsibilities in software development and human-computer interaction. Topics include laws, risks, and liabilities, codes of ethics, privacy, international and gender related issues, philosophical frameworks, and economic implications. Students will learn and develop oral presentation and research skills. Prerequisites: CS 246 and 257.

CS 495. Independent Study in Computer Science.
Cr. 1-3. The student studies an advanced topic in Computer Science under the direction of a faculty member. Written work is required. Prerequisite: consent of the Chair of the Department.

CS 497. Honors Work in Computer Science.
Cr. 3. See Honors Work, page 53.

CS 498. Honors Candidacy in Computer Science.
Cr. 3. See Honors Work, page 53.
Modern European Studies

Administrative Committee: Professors Rubchak (History, Chair), Olmsted (Christ College), Trust (Political Science); Associate Professors N. Corazzo (Art), Duvick (Foreign Languages and Literatures).

Modern European Studies is an interdisciplinary program that may be taken either as a complementary academic major or as an academic minor in partial fulfillment of the major field requirements.

Objectives. Throughout all of the modern centuries, Europe has been central to the cultural, economic, and political development of the entire West, as well as a major force in shaping events and patterns of change in the world beyond the West. Today there are numerous signs to indicate that it will continue as one of the world's several most significant areas far into the future. For a comprehensive understanding of Europe, it is necessary to study it in terms of time and space and to inquire into the major currents detectable in its cultural, economic and political life, past and present. The Modern European Studies Program affords an opportunity for this broad study. By combining courses from various departments, it spans the modern centuries (i.e., from the sixteenth century to the present) and explores present thought and issues from a variety of perspectives. Designed to address the needs of students who consider an understanding of movements, issues, and achievements associated with modern Europe as an essential part of a broad liberal education, the Program will provide a natural extension or supplement for a number of traditional departmental majors. It affords a particularly strong background for students planning to pursue graduate work in a field involving knowledge of Europe, and for those preparing themselves for a professional future in the cultural arts, public affairs, and business fields with a European dimension. For those hoping to work in educational, informational and journalistic areas related to Europe, the Program is an ideal course of study.

Major. Thirty-three credit hours constitute a major. They must include the Program Core courses, 15 credit hours in courses selected from at least three of the participating departments, and MEUR 495. No more than four courses from the Program major may be used to fulfill another major, minor or general education requirement.

Minor. Eighteen credit hours constitutes a minor. They must include the Program Core courses and 3 credit hours of electives. No more than two courses from the Program minor may be used to fulfill another major, minor or general education requirement. Students in this Program must meet the general education requirement in a European language. Courses approved by the Program Chair taken at the university's European study centers or in European study-abroad programs may also be counted as part of the Program. All courses beyond those in the Program Core must have the approval of the Chair of the Program’s Administrative Committee.

Program Core

There are no prerequisites for ECON 370 for Modern European Studies majors. Foreign Language and English Literature courses listed as option in the Program Core but not selected may be taken as electives in the Program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 318</td>
<td>19th Century European Art or History of Modern Europe</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ART 319</td>
<td>Early 20th Century European Art</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ECON 365</td>
<td>Modern European Economic History</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ECON 370</td>
<td>Modern European Economic History</td>
<td>3Cr.</td>
</tr>
<tr>
<td>HIST 319</td>
<td>Contemporary Europe: Century of Violence</td>
<td>3Cr.</td>
</tr>
<tr>
<td>POLS 330</td>
<td>Politics of Industrialized States</td>
<td>3Cr.</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLF 222</td>
<td>French Literature from 1800 to the Present</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLGR 222</td>
<td>Selected Readings in German Literature since 1800</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLS 321</td>
<td>Spanish Literature</td>
<td>3Cr.</td>
</tr>
<tr>
<td>English Literature, select from 400-</td>
<td>level English Literature courses</td>
<td>3Cr.</td>
</tr>
</tbody>
</table>

Elective Courses

Foreign Language courses numbered 250 are taught in translation and may be counted when the topic is appropriate. Topical courses numbered 390 or 490 may be taken from participating departments when they focus on a European topic.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 102</td>
<td>Renaissance to Modern Art History</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ART 318</td>
<td>19th Century European Art</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ART 319</td>
<td>Early 20th Century European Art</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ECON 236</td>
<td>Comparative Economic Systems</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ECON 365</td>
<td>Modern European Economic History</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ENGL 450</td>
<td>British Literature of the 19th Century</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ENGL 456</td>
<td>The Novel</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ENGL 460</td>
<td>Twentieth Century Drama</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ENGL 470</td>
<td>Twentieth Century Fiction</td>
<td>3Cr.</td>
</tr>
<tr>
<td>ENGL 476</td>
<td>Twentieth Century Poetry</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLF 222</td>
<td>French Literature from 1800 to the Present</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLF 231</td>
<td>French Civilization from 1870 to the Present</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLF 232</td>
<td>French Civilization from 1870 to the Present</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLF 250</td>
<td>Topics in French Literature and the Fine Arts</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLGR 222</td>
<td>Selected Readings in German Literature since 1800</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLGR 232</td>
<td>German Civilization since 1800</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLGR 250</td>
<td>Topics in German Literature and the Fine Arts</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLS 230</td>
<td>Spanish Civilization</td>
<td>3Cr.</td>
</tr>
<tr>
<td>FLS 321</td>
<td>Spanish Literature</td>
<td>3Cr.</td>
</tr>
<tr>
<td>GEO 301</td>
<td>Regional Geography: Europe</td>
<td>3Cr.</td>
</tr>
</tbody>
</table>

MEUR 495. Independent Study.

Cr. 3. An independently supervised course that may be taken in any of the departments participating in the Program. Students are expected to produce a major paper involving at least two of the disciplines included in the Program and meet the course criteria established by the Administrative Committee. Before registering for the course, students must have the approval of the supervising professors and the Program Chair.
The Department of Music offers three degree programs: Bachelor of Arts, Bachelor of Music, and Bachelor of Music Education. The Bachelor of Arts may be pursued as a traditional liberal arts music major, as an interdisciplinary track in Music Enterprises, or with an emphasis in Theatre. Deaconess training may also be combined with the study of music through Deaconess Program Plan 2 (see page 52). The Bachelor of Music may be earned through concentrated professional study in one of three tracks: performance, church music, or composition. The Bachelor of Music Education carries full teaching certification in a combination of vocal and instrumental music. Valparaiso University is an accredited institutional member of the National Association of Schools of Music.

Graduates from the Department of Music pursue careers of varied kinds: teaching music in elementary and secondary schools and in private studios; professional music leadership in churches; and positions in arts related businesses (arts management, recording, publishing, music retailing, music technology, and entertainment). The Music curriculum is also especially well designed to prepare students for graduate study in music leading to professions in higher education and performance. Mastery of performance, verbal, and critical thinking skills are expected in most music-related professions. Some fields, such as music education, church music, and music business, require hands-on training through internship experiences. Skill in use of electronic technology is increasingly important in many music-related fields. Ability to improvise, compose, arrange, and conduct increases the musician’s chances for success. The Music curriculum is designed to meet these expectations.

Admission. A performance audition and diagnostic profile exam in musicianship is required for entry into the music major. Music majors must also meet all admissions requirements set by the University and by the College of Arts and Sciences.

Departmental Requirements. Majors and minors must meet all requirements set for them by this department, as outlined in the Department Handbook for Music Students which is distributed at the beginning of each academic year and which is available on request from the Department of Music Office. Regulations concerning student performance, concert attendance, ensemble participation, music colloquium, and the Keyboard Proficiency Tests are included in the Handbook.

Special Co-Curricular Programming. Visiting performers, scholars, and clinicians supplement the regular curricular instruction through frequent recitals, lectures, workshops, and seminars presented by the Department. Annual events of long-standing include the Jazz Festival and the Church Music Seminar. A wide array of faculty and guest performances, combined with regular presentation of student soloists, chamber musicians, and ensembles are programmed annually. The concert calendar is deliberately designed to support student learning in the major; at the same time it offers rich cultural opportunities to other students and all members of the University community, as well as audiences in Northwest Indiana.

Bachelor of Arts

The Bachelor of Arts in music, the traditional liberal arts music track, allows ample time for a second major or a minor; an international or urban semester is also possible. Candidates for the Bachelor of Arts degree with a major in music must meet all General Education Requirements as well as departmental requirements.

Music Major. A minimum of 31 credit hours in Music constitutes a major. Courses must include MUS 109, 110, 163, 164, 201, 263, 318, 319, 499; six credit hours in the student’s principal performing medium (completion of MUS 203) and four credit hours of ensemble participation. Students pursuing the 40 credit hour music major option must include MUS 208, 264, 309, and 401.

Church Music Option. Music majors with a particular interest in church music are advised to complete the 31 credit music core (see above) plus the following: MUS 213, 313, 473, and an independent study (MUS 495) church music practical experience for a total of 40 music credits. Students in the church music option are required to complete 203 level in the primary performance medium and must also complete 103 level in piano or organ if the primary performance medium is not piano or organ.

Music Enterprises Option. This interdisciplinary concentration in Music/Business combines the 31 credit music core (see above), 6 additional credits in music (MUS 375 and 488), and the minor in Business Administration (see page 226). The Music Enterprises option is designed to prepare students for management positions in the manufacturing, publishing, distribution, and retailing aspects of the music industry.

Musical Theatre Option. This interdisciplinary concentration in Music/Theatre combines the 31 credit music core (see above) with a minor in Theatre ("Specialized Minor in Musical Theatre") plus MUS 210 and 211 (or THTR 134).

Bachelor of Music Education

The General Education Requirements for this degree are given on page 47. Also required are PSY 110 and one course from COMM 145, 243 or THTR 141. The music requirements are outlined below:

**Music Core**
- MUS 109, 110, 209, 309: 8 Cr.
- MUS 163, 164, 263, 264: 12 Cr.
- MUS 201, 318, 319, 401: 10 Cr.

**Music Education Core**
- MUS 213: 2 Cr.
- MUS 313 Intermediate Conducting: 2 Cr.
- Music Ensemble: 6 Cr.
- Music Colloquium: 6 Cr.
- Total: 40 Cr.

**Music Education Option**

**Principal Instrument**: 8 Cr.
- Second Instrument*: 5 Cr.
- MUS 239: 1 Cr.
- MUS 231, 233, 235, 237: 4 Cr.
- MUS 312: 2 Cr.
- MUS 389: 3 Cr.
- MUS 489: 3 Cr.
- Total credits: 26 Cr.

**Total for graduation**: 142 Cr.

- **Music Core**: MUS 239, 231, 233, 235, 237, 312, 389, 489.
- **Music Education Core**: MUS 210, 213, 313, 318, 319, 401, 239.
- **Total required**: 136 Cr.

*Completion of level 303 is required.

Bachelor of Music

For the General Education Requirements for this degree, see page 46. The music requirements are outlined below:

**Music Core**
- MUS 109, 110, 209, 309: 8 Cr.
- MUS 163, 164, 263, 264: 12 Cr.
- MUS 201, 318, 319, 401: 10 Cr.
- MUS 213: 2 Cr.
- MUS 463: 3 Cr.
- MUS 464: 3 Cr.
- Music Ensemble: 8 Cr.
- MUS 499: 8 Cr.

**Total**: 46 Cr.
Cr. 3. A study of the basic forms and styles of musical art in Western civilization and in non-Western cultures. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

Cr. 1. A course for students who plan to take a music theory sequence. Topics include fundamentals of note-reading, rhythmic notation, scale and melody, and intervals. This course is offered for S/U grade only and may not be used to fulfill the General Education Requirement in the College of Arts and Sciences or be counted toward a major or minor in music. Available only for students identified through the Music Theory Placement Exam.

MUS 109. Musicianship I.
2+1, Cr. 2. A practical course in which basic musicianship is developed through sight-singing, dictation and guided listening. An introduction to jazz forms is included. Prerequisite: MUS 109.

MUS 110. Musicianship II.
2+1, Cr. 2. A practical course in which basic musicianship is developed through sight-singing, dictation and guided listening. An introduction to jazz forms is included. Prerequisite: MUS 109.

MUS 163. Music Theory I.
Cr. 3. A course in the fundamentals of music which emphasizes the development of analytical and listening skills. Topics include notation, elements of pitch and rhythm, harmonic organization, and part writing. Prerequisite: MUS 102 or placement into MUS 163 determined by Music Theory placement component of Music Diagnostic Exam.

MUS 164. Music Theory II.
Cr. 3. A continuation of MUS 163 including the study of melodic organization, non-chord tones, diatonic seventh chords, secondary dominants, and modulation. Prerequisite: MUS 163.

MUS 201. Development of Western Music.
Cr. 2. An overview of the stylistic trends in Western art music from the Middle Ages to the contemporary era. Prerequisite: MUS 163.

MUS 209. Musicianship III.
2+1, Cr. 2. An intermediate course in ear-training, sight-singing, and guided listening. Prerequisites: MUS 110 and completion of all proficiency requirements as outlined in the Music Department Student Handbook.

MUS 210. Language Diction.
Cr. 1. A study of IPA (International Phonetic Alphabet) spellings, symbols, and sounds as applied to the English language.

MUS 211. Foreign Language Diction.
Cr. 2. Application of IPA to perform the principal singer’s languages (Italian, French, and German) and actor’s international dialects. Prerequisite: MUS 210.

MUS 213. Basic Conducting.
Cr. 2. An introduction to conducting including a study of score reading, beat patterns, acoustics and interpretive principles. Prerequisite: MUS 184 or consent of the instructor.

MUS 231. Stringed Instructional Methods.
0+2, Cr. 1. Violin, viola, violoncello and contrabass are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

MUS 233. Woodwind Instructional Methods.
0+2, Cr. 1. Clarinet, saxophone, oboe, bassoon and flute are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

MUS 235. Brass Instructional Methods.
0+2, Cr. 1. Trumpet, French horn, trombone, baritone horn and tuba are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

MUS 236. Guitar Instructional Methods.
0+2, Cr. 1. Guitar is studied for the purpose of giving the student the basic skills necessary for the use of the guitar in classroom music teaching.

MUS 237. Percussion Instructional Methods.
0+2, Cr. 1. Percussion instruments are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

MUS 239. Voice Instructional Methods.
0+2, Cr. 1. This course is designed to give the student a fundamental technical and teaching knowledge of the voice as an instrument.

MUS 263. Music Theory III.
Cr. 3. A continuation of MUS 164 with special emphasis on the harmonic developments of the 19th century and an introduction to 20th century practices. Topics include binary and ternary forms, mode mixture, altered chords, enharmonic modulation, as well as melodic and harmonic materials of the 20th century. Prerequisite: MUS 164.

MUS 264. Music Theory IV.
Cr. 3. A course in which the skills of analysis, writing, and listening are developed in the study of 18th century counterpoint (melodic construction, two-voice writing, canon, invention, and fugue). Also included is a study of larger forms (sonata, variations, rondo, and twelve-tone techniques). Prerequisite: MUS 263.

Cr. 3. A study of materials, methods and techniques of general classroom music for the primary grades. This course is open only to elementary education majors and may not be counted toward a major or minor in Music.

MUS 309. Musicianship IV.
2+1, Cr. 2. An advanced course in ear-training, sight-singing and guided listening. Prerequisite: MUS 209.

MUS 310. Music in History.
Cr. 3. A study of music as a cultural expression in the history of Western civilization through the examination of the major stylistic traditions of musical art. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

MUS 312. Scoring and Arranging.
Cr. 2. The techniques of scoring for orchestra and band and of arranging music for choral performance. Through guided exercises and assigned readings, students learn how to prepare music written in one medium for use in another. Knowledge of vocal and instrumental instrumentation is assumed; skills in combining voices and instruments in various ensembles are practiced. Prerequisite: MUS 164.

MUS 313. Intermediate Conducting.
Cr. 2. A continuation of MUS 213. Includes rehearsal techniques, specific choral and instrumental conducting problems and ensemble conducting experience. Prerequisite: MUS 213.

MUS 317. History and Literature of Music I.
Cr. 3. The development of musical thought and literature to 1700. Prerequisites: MUS 110 and 263. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

Cr. 3. The development of musical thought and literature from 1700 to 1860. Prerequisite: MUS 201. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

MUS 319. Music of the Late Romantic and Modern Eras.
Cr. 3. A study of music and musical thought from 1860 to the present. Prerequisite: MUS 201. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

Cr. 3. A study of music and musical thought from 1700 to 1860. Prerequisite: MUS 201. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

MUS 375. Music Enterprises.
Cr. 3. The major objective of this course is to acquaint the student with basic information for success in the music merchandising and to help the student understand the place of music in our contemporary society. Field trips are a vital component of this course. Areas and principles covered include retailing, publishing, manufacturing, performing and recording and managing musical enterprises.

MUS 381. Cooperative Education in Music.
Cr. 0-5. Professional work experience with a cooperating employer. Written report required. Prerequisite: chair's approval of written proposal submitted to the department office at least 6 weeks prior to start of the semester.

MUS 389. School Music I.
Cr. 3. A course designed to deal with materials, procedures, organization, administration and musical growth and development of children in elementary and junior high schools. Prerequisite: MUS 164.

MUS 390. Topics in Music.
Cr. 1-3. Specific topics based on interests of students and faculty. Topics may vary from one semester to another. May be repeated for credit if topics are different. Prerequisite: sophomore standing.

MUS 401. Early Music Seminar.
Cr. 2. A history of Western music from antiquity to the early Baroque era; emphasis is placed on historical research and the study of notation and performance practice. Prerequisite: MUS 318.

MUS 404. Recital.

MUS 413/513. Advanced Conducting, Choral/Instrumental.
Cr. 2. A study of instrumental and choral scores, conducting techniques and materials. Prerequisite: MUS 313 or the equivalent.

MUS 414/514. Advanced Conducting, Choral/Instrumental.
Cr. 2. A continuation of MUS 413/513.

MUS 415/515. Liturgical Organ Playing.
Cr. 2. A practical course in playing hymns and chants, accompanying, realization of figured bass, score reading and improvising in small forms. The historic and current roles of the organ in the liturgy are discussed. Prerequisites: three years of organ study and MUS 164, or permission of the instructor. Offered in alternate years.

MUS 421/521. Pre-Seminar in Music.
Cr. 2-3. An intensive study of a limited area in the history or theory of music. This course may be repeated for credit. Prerequisite: consent of the Chair of the Department.

MUS 423/523. Pre-Seminar in the Pedagogy of Music.
Cr. A consideration of the problems of teaching basic musicianship at all levels. Special attention is given to the adaptation of basic principles to the media of most interest to the members of the pro-seminar. Prerequisite: consent of the Chair of the Department.
MUS 432/532. Workshop in Music Education. Cr. 1-2. A study of current topics in music education in summer workshop sessions of one or two weeks.

MUS 454. Teaching of Performance Music. Cr. 1. A survey of pedagogical materials and methodology of the student's performance area. Students will be required to observe lessons and do practice teaching during the semester. Must be taken concurrently with MUS 453.

MUS 464/564. Twentieth Century Techniques. Cr. 3. A study of selected 20th-century musical works demonstrating stylistic characteristics of impressionism, neoclassicism, non-spectral atonality, serialism, minimalism, indeterminacy, and neo-romanticism. Particular attention is paid to compositional technique and style. Prerequisite: MUS 264.

MUS 464/564. Studies in Counterpoint. Cr. 3. In this course 16th-century counterpoint is studied through the writing of music based on stylistic models and through analysis of representative works of the period. Also included in the course is an introduction to Schenkerian analysis. Prerequisite: MUS 264.

MUS 473/573. Church Music. Cr. 3. An intensive academic study of the history, philosophies, and practices of music in Christian churches with an emphasis on the Lutheran heritage. Readings from the standard scholarly texts in the field and from current professional publications, discussed in a seminar format. Topics include theologies of music, hymnody, music in worship, church music organizations, and sacred music repertoire. Open to upper division and graduate music majors; non-majors may be admitted by permission of the instructor.

MUS 486. Internship. Cr. 3. Controlled, on-the-job experience with participating businesses for senior music students. May be taken during the regular term with part-time employment of 18 to 20 hours weekly or during the summer session with 36 to 40 hours per week. Term project required. Applications should be made early in the semester preceding registration for this course. The application is reviewed on the basis of the student's academic standing, faculty recommendations, professional progress and demonstrated interest. May not be repeated for credit. SU option may be elected. Prerequisite: MUS 375.

MUS 489. School Music II. Cr. 3. A study of music materials, procedures, organization, administration and musical growth and development of students in junior high, middle and high schools. Includes introduction of philosophical foundations, principles and literature of the music education profession. Prerequisites: MUS 389 and admission to Teacher Education.

MUS 498. Independent Study in Music. Cr. 1-3. A course of study arranged by the student with the consent of and under the supervision of a faculty adviser. The study results in a written essay on a topic approved by the adviser. Prerequisites: MUS 264 and 381 and approval of the Chair of the Department.


MUS 499. Music Colloquium. Cr. 0. All music majors will register for this course each semester in residence as outlined in the Handbook for Music Students. SU grade.

PERFORMANCE

Note: Non-music majors who are candidates for degrees in the College of Arts and Sciences are restricted to a maximum of 16 credit hours in performance, including no more than four credit hours in ensemble music, which may be applied toward degree requirements.

A. Studio Instruction. See page 256 for appropriate fees.

Cr. 1-3. A four-year undergraduate and graduate program of studio instruction is offered to students of Valparaiso University in piano, organ, harpsichord, orchestral and band instruments, voice, guitar, and composition. The choice and use of materials are determined by the instructor in each area following guidelines which appear in the Department of Music Handbook for Music Students. A limited number of studio spaces are available for non-majors. All non-major studio enrollments are for 1 credit hour. Bachelor of Music Education and Bachelor of Music majors may register for 2 credit hours in their principal performance medium. Only Bachelor of Music majors may register for 3 credit hours in their principal performance medium. Studio instruction for music majors is supplemented with a required performance colloquium which meets for one 50-minute period per week. (MUS 498, 0 cr.); non-majors enrolled in studio instruction are welcome to participate in the colloquium and are urged to do so.

Students will register for one of the following levels in their studio instruction medium: MUS 003, 103, 203, 303, 403, 503, 603. Students with no prior or minimal study should register for MUS 003.

Music majors are accepted into the music program following an audition and are placed at an appropriate level as specified by the guidelines of their chosen degree program. Other students will be placed at an appropriate level through consultation with the Chair of the Department and the studio faculty.

B. Ensemble Music Instruction.

Instruction in one of the major ensembles for a period of one semester gives one credit hour. Instruction in one of the minor ensembles gives 0.5 credit hour. If a student has earned eight credit hours in ensemble music, any additional enrollments are graded on the SU basis. The following are considered major ensembles: University Singers, Valparaiso University Chorale, Kantorei, Concert Band, Jazz Band, Chamber Orchestra. All other ensembles listed here are considered minor ensembles. All ensemble courses are available for graduate credit at the 500 level. Enrollment at the 500 level is limited to students who have specialized training and background to participate in the ensemble in some capacity [such as assistant conductor, section leader or project director] to be determined by the instructor of the ensemble and with the approval of the Chair of the Department. Note: Non-music majors may apply no more than four credit hours of ensemble music toward a degree in the College of Arts and Sciences.

MUS 505,550. Choirs.
University Singers, Valparaiso University Chorale, Kantorei, admission by audition only.

MUS 502,552. Bands.
Concert Band, Luce Band, Jazz Band, admission by audition only. Also Community-University Band, audition not required.

MUS 504,554. Orchestra.
University Symphony Orchestra. Admission by audition only.

Admission by audition only.

MUS 508,558. Chamber Music.
Prerequisites. Courses numbered 100 are considered introductory courses and have no course prerequisites. Courses numbered 200 are considered advanced introductory courses and require sophomore standing or consent of the instructor. Courses numbered 300 and above are considered advanced courses and have, as prerequisite, any one course numbered under 300, or sophomore standing in Christ College, or consent of the instructor. Courses numbered 400 and above are designed for majors and minors.

General Education. Any course in philosophy will satisfy the General Education Historical and Philosophical Studies requirement, but students will usually be best served by choosing PHIL 115, 120, 125, or 150. From time to time certain philosophy courses are cross-listed with upper level Theology courses and thus may satisfy that requirement under the Theology number. PHIL 120 will also satisfy the U.S. Cultural Diversity requirement. PHIL 220 will satisfy the Diversity: Global Cultures and Perspectives requirement. PHIL 210 will satisfy the Fine Arts/Fine Arts Literature requirement.

Note: Students should consult the Philosophy Department Course Descriptions Brochure published by the Department each semester and the Schedule of Classes to ascertain when any particular course will be offered. The brochure gives a detailed description of each course offered the following semester. Copies are available at the departmental office and before every registration.

PHIL 115. Introduction to Philosophy: Reason and Reality. Cr. 3. An introduction to philosophy which features some of the most fundamental questions raised by both ordinary persons and philosophers in their attempts to understand themselves and their world. Questions are raised about the nature of reality, the foundations of knowledge and value, the nature of persons, freedom and causality, and the relationship between faith and reason.

PHIL 200. Non-Western Philosophy. Cr. 3. An introduction to some major philosophical themes in Non-Western thought. Emphasis is upon the analysis of primary texts. Prerequisite: sophomore standing. This course fulfills the General Education Requirements. Prerequisite: sophomore standing or consent of the instructor.

PHIL 230. Environmental Philosophy and Ethics. Cr. 3. A survey of major conceptions of the relationship between humanity and the environment and the kinds of beliefs, attitudes, and actions entailed by those conceptions. Topics may include conservationism, deep ecology, bioregionalism, political ecology, and creation spirituality. Prerequisite: sophomore standing or consent of the instructor.

PHIL 240. Feminist Philosophy. Cr. 3. A philosophical examination of feminist theory or some issue or issues in feminist philosophy. Issues may include gender and knowledge, the social construction of reality, women and law, and nature and identity. Prerequisite: sophomore standing or consent of the instructor.

PHIL 250. Political Philosophy. Cr. 3. (Also offered as POLS 250.) A survey of the major formulations and problems of Western political thought as developed by political philosophers from the Greeks through the modern era. Prerequisite: sophomore standing or consent of the instructor.

PHIL 275. Ancient and Medieval Philosophy. Cr. 3. An introduction to great philosophers and themes of the ancient and medieval world. Emphasis will be placed upon Plato and Aristotle, Augustine and Thomas Aquinas. Primary documents are read throughout. Prerequisite: any 100-level philosophy course or consent of the instructor.

PHIL 280. Early Modern Philosophy. Cr. 3. An introduction to major thinkers and themes of seventeenth and eighteenth century Europe: Descartes, Leibniz, Hobbess, Locke, and Hume. Emphasis will be placed upon the Rationalist and Empiricist traditions and their synthesis in Kant. Primary documents are read throughout. Prerequisite: any 100-level philosophy course or consent of the instructor.

PHIL 290. Philosophical Topics. Cr. 3. A study of a focused philosophical theme or issue. This course may be repeated for credit if the topics are different. Prerequisite: sophomore standing or consent of the instructor.

PHIL 310. Theory of Knowledge. Cr. 3. An examination of selected topics which illustrate dominant themes of traditional and contemporary theories of knowledge, such as skepticism, perception, evidence, verifiability, memory, belief, justification, and truth. Prerequisite: any two courses in philosophy or consent of the instructor.

PHIL 315. Philosophy of Language. Cr. 3. How do words mean? The nature of meaning and of language has been at the center of twentieth century philosophy. This course will examine these and other issues in the philosophy of language, concentrating on the discussions of recent philosophers. Prerequisite: PHIL 150 or MATH 151 or consent of the instructor.
PHIL 320. Metaphysics. Cr. 3. An examination of traditional and contemporary metaphysical topics, such as time, substance, agency, freedom, appearance and reality, persons, the mind-body problem. Prerequisite: PHIL 150 or MATH 151 or consent of the instructor.

PHIL 330. Philosophy of Religion. Cr. 3. A philosophical analysis of some of the beliefs, concepts, and problems involved in traditional theistic belief and its critics. Problems include arguments for the existence of God, religious experience, the problem of evil, and faith and reason. Prerequisite: one course in philosophy or any Level II Theology course.

PHIL 335. Ethical Theory. Cr. 3. A study of some significant ethical theories and issues. Emphasis is on issues concerning the nature of moral discourse and practice: the existence of objective moral values, the relation of religion and morality, the possibility of moral knowledge, the place of reason and convention in moral discourse and practice. Prerequisite: any two courses in philosophy or consent of the instructor.

PHIL 341. Biomedical Ethics. Cr. 3. (May also be offered as THEO 341.) A study of moral issues raised in health-care and biological research (e.g., abortion, euthanasia, genetic engineering, and resource allocation). Attention is given both to ethical theory and to practical issues. Prerequisite: one course in philosophy or any Level II Theology course.

PHIL 345. Advanced Logic. Cr. 3. A study of formal deductive logic as codified in first-order predicate logic, including the concepts of proof, consistency, and completeness, and topics in logical theory and the foundations of mathematics. The relationship between formal logic and rational inquiry is also explored. Prerequisite: PHIL 150 or MATH 151 or consent of the instructor.

PHIL 375. Advanced History of Philosophy. Cr. 3. An advanced study of the major philosophical themes of some period, for example, nineteenth century German philosophy, eighteenth century Scottish philosophy, or medieval philosophy. Prerequisite: PHIL 275 and 280 or consent of the instructor.

PHIL 425. Advanced Philosophical Topics. Cr. 3. An examination of the work on one major philosopher such as Aristotle, Wittgenstein, or Kant, or of a single philosophical approach such as Augustinianism or phenomenology, or of one philosophical problem such as free will or moral realism. Prerequisite: PHIL 275 and 280 or consent of the instructor.

PHIL 450. Philosophy Seminar. Cr. 3. A seminar required of all philosophy majors in their senior year. An examination of the nature and value of philosophy through the study of some philosophical problem, and classic and contemporary texts. Prerequisite: PHIL 275 and 280 or consent of the instructor.

PHIL 495. Independent Projects. Cr. 1-3. A student may undertake independent study of some person, problem, theme, etc., under the supervision of some member of the Philosophy Department. The student will propose a topic, generate a bibliography and specify the scope and goals of the study.


Physical Education

Professor Steinbrecher; Associate Professor Stieger (Chair); Assistant Professors Carl, Tyree; Instructor Tucker; Adjunct Assistant Professors Criswell, Moore; Adjunct Instructors Daughtery, Selbert.

The Physical Education Department seeks to provide students with knowledge and skills designed to enhance the quality of campus life as well as to provide them with suitable basic experiences for lifelong personal use. Although physical education within a school setting is a continuing area of professional opportunity, personal physical activity and enjoyment of spectator sports has created new areas of opportunity for the physical educator: adult fitness, leisure services, athletic training, exercise science, sports writing and broadcasting, and sports management. Students can select courses from the departmental curriculum to reflect these new areas.

Degree. Completion of the degree requirements of the College of Arts and Sciences with a major in physical education leads to the Bachelor of Science in Physical Education degree. The Athletic Training major, Sports Management major, and Exercise Science major are noted on a student’s transcript as Physical Education: Athletic Training, Physical Education: Sports Management, or Physical Education: Exercise Science.

Physical Education Major. A minimum of 28 credit hours in physical education constitutes a major. Courses must include PE 150, 180, 203, 204, 340, 341, and 440. In addition, students must complete BIO 151, 152, and 205, CHEM 111, and PSY 110.

Physical Education Minor. A minimum of 18 credit hours in physical education constitutes a minor. Courses must include PE 150, 190, 203, and 370.

Physical Education Teacher Education. Students who plan to teach elementary or secondary schools with a major or minor in Physical Education must also complete a comprehensive major in secondary education.

Physical Education Teacher Education Major: All Grades. This teaching major requires a minimum of 53 credit hours. Courses must include PE 150, 180, 203, 240, 250, 260, 270, 290 (2 credits), 340, 360, 370, 389, 410, 440, and 489. Additionally, students must pass all portions of the Pre-Professional Skills Test (PPST) and gain formal admission into the Teacher Education Program in the Education Department. The complementary major in Secondary Education for Physical Education Teacher Education students includes the following: ED 203, 204, 370, 460, SPED 440, (ED 474 and 475 for students who entered the University prior to Fall 2001), ED 485, and 459.

Physical Education Teacher Education Major: All Grades. This teaching major requires a minimum of 53 credit hours. Courses must include PE 150, 180, 203, 240, 250, 260, 270, 290 (2 credits), 340, 360, 370, 389, 410, 440, and 489. Additionally, students must pass all portions of the Pre-Professional Skills Test (PPST) and gain formal admission into the Teacher Education Program in the Education Department. The complementary major in Secondary Education for Physical Education Teacher Education students includes the following: ED 203, 204, 370, 460, SPED 440, (ED 474 and 475 for students who entered the University prior to Fall 2001), ED 485, and 459.

Physical Education Teacher Education Minor 5-12. This teaching minor requires a minimum of 24 credit hours. Courses must include PE 150, 180, 203, 240, 250, 260, 340, and 370 or 440. In addition, students must complete BIO 151 and 152.

Health and Safety Teaching Minor. This teaching minor requires a minimum of 24 credit hours. Courses must include PE 190, 230, BIO 151 and 205. In addition, students must complete 3-4 credits of BIO 152, 210, 270 or PSY 330; GEO 101 or 102; BIO 250, SOC 160, or SOC 390; and PE 235 or 3 additional elective credits from previously listed courses.

Coaching Endorsement. This endorsement requires a minimum of 17 credit hours. Courses must include PE 180, 190, 220, 235, 310, 370, and 440.

Sports Management Major. A minimum of 30 credit hours in physical
Physical Education

education is required. Courses must include PE 150, 220, 233, 240, 310, 320, 333, 343, 410, 473, 486 (3 credit hours). Either the Senior Project or the Internship must be an off-campus experience. In addition, students must complete COMM 100 and 265, and the 21-credit Liberal Business Minor.

Exercise Science Major. A minimum of 24 credit hours in physical education is required. Courses must include PE 150, 220, 370, 387, 440, 473, 486 (3 credits) 477. In addition, students must complete PHYS 111, PSY 201, either BIO 205 or BIO 260, and a minor in either chemistry or human biology.

Exercise Science Minor. The exercise science minor requires a minimum of 15 credit hours in physical education. Courses must include PE 150, 220, 370, 387, 440, 477. In addition, students must also complete BIO 205 or BIO 260.

Athletic Training Major. Athletic Training is the profession concerned with the prevention, recognition, immediate treatment, and rehabilitation of injuries associated with the physically active. It also encompasses the organization and administration of athletic training programs. Athletic trainers work closely with physicians and other allied health care providers. The American Medical Association recognizes the National Athletic Trainers' Association (NATA) certified athletic trainer as an allied health care professional. New students are not being admitted to this program.

Objective. The Athletic Training Education Program (ATEP) is designed to prepare students to enter athletic training and allied health fields. Curriculum emphasis is placed on the development of cognitive knowledge in addition to psychomotor and affective proficiency skills. Laboratory, practicum, internship and field experiences are included in the educational process. The Athletic Training Education Program prepares students for the National Athletic Trainers' Association Board of Certification (NATABOC) examination as an entry-level athletic trainer. In addition, it prepares students for graduate study in athletic training, physical therapy, exercise science, or other related fields. Students may also complete a complementary major in teacher education to be qualified for the secondary school job market.

Accreditation. The program is a current candidate for accreditation by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Requirements. A minimum of 44 credit hours in physical education is required for the Athletic Training major. Courses must include PE 150, 185, 190, 230, 235, 265, 275, 286, 310, 335, 340, 370, 375, 385, 410, 435, 440, 455, 485, and 486 (1 credit hour). In addition, students must complete BIO 151, 152, and 205, CHEM 111, and PSY 110. Completion of this concentration plus 1500 hours of athletic training experience should qualify a student to take the NATABOC examination.

Criteria for Admittance to the Athletic Training Program (ATEP). The admission process for entrance into the Athletic Training Education Program is competitive and a limited number of students are accepted each academic year. Students apply during the spring semester for entrance into the Athletic Training Education Program for the next academic year. Students must be formally enrolled in the Athletic Training Education program after formal acceptance to Valparaiso University.

Admission. Action on each application is taken by the Athletic Training Education Program Admissions and Retention Committee and is based on the following criteria:

1. Completion of the Technical Standards for Admissions form during the Athletic Training Education program orientation in the fall semester.
2. Completion of PE 190, 235, and 265 with a minimum grade of B in each course, BIO 151 and 152 with a minimum grade of C in each course. These courses must be completed or in progress at the time of application.
3. Minimum of 100 clinical hours of athletic training observation at the time of application.
4. Formal application to the Athletic Training Education Program Admissions and Retention Committee.
5. Evaluations by Approved Clinical Instructors.
6. Interview with Athletic Training Education Program Admissions and Retention Committee.
7. Completion of one year of attendance at Valparaiso University with a minimum cumulative grade point average of 2.50 or higher in all coursework.
8. Formal admittance to the Athletic Training Education program by letter of appointment at the completion of the spring semester. Meeting these admissions requirements does not guarantee entry into the Athletic Training Education Program due to selective admission and certified athletic trainer/student ratio requirements.

Progression. The following criteria must be met to continue in the program:

1. Students must maintain a minimum cumulative grade point average of 2.50 or higher in all coursework taken at Valparaiso University and a 2.50 grade point average in all coursework required within the Athletic Training Education Program.
2. Students are expected to complete six (6) semesters of clinical experience with a minimum of 200 clinical hours per semester under the supervision of a certified athletic trainer/approved clinical instructor.
3. Clinical evaluations by Approved Clinical Instructors.

Athletic Training Clinical Opportunities. Clinical experiences will be obtained in the Valparaiso University athletic training facility and/or selected sites in Northwest Indiana. Note: Students are responsible for travel to and from clinical field experiences and transportation while enrolled in the athletic training internship.

Health. An applicant shall be free of serious mental or physical health problems that might impair effectiveness in the Athletic Training profession. Students are required to present evidence of a physical examination, current immunization (HBV included), and communicable disease screening (TB skin test).

Approval of Schedules. All students pursuing a major or minor in the Department, and all students who plan to achieve certification in the teaching of physical education must have their schedules approved by the Chair of the Department or a departmental adviser before each registration period.

Basic Courses in Physical Education. All students must take one credit hour of Fitness Principles and

Activities courses PE 101-105. Each section meets twice a week for fourteen weeks. Anyone who has served in the Armed Forces for at least one year is exempted from this requirement, except a National Guard member. No more than four credit hours earned in PE 100-149 may be counted toward any degree.

PE 101. Individual Exercise. 0+2, Cr. 1. Principles and physiology of physical fitness with topics such as resistive exercise training, nutrition and aerobic conditioning. A personalized exercise program is developed.

PE 102. Aerobic Dance. 0+2, Cr. 1. Principles and physiology of physical fitness is included in conjunction with the physical activities involved in an aerobic dance program.

PE 103. Aerobic Run. 0+2, Cr. 1. Principles and physiology of physical fitness is included in conjunction with the physical activities involved in an aerobic run program.

PE 104. Aerobic Swim. 0+2, Cr. 1. Principles and physiology of physical fitness is included in conjunction with the physical activities involved in an aerobic swim program.

PE 105. Weight Training. 0+2, Cr. 1. Principles and physiology of physical fitness is included in conjunction with the physical activities involved in a weight training program.

PE 106-143. Elective Activities. 0+1, Cr. 0.5. Individual, dual, team, indoor and outdoor activities are presented in various combinations. A specific activity may not be repeated for credit. Each course meets twice a week for seven weeks. SU graded only.

PE 150. Introduction to Physical Education. Cr. 1. Seven weeks course. An introductory course for students interested in physical education. The course provides an opportunity for students to explore physical education: teacher education, athletic training, exercise science or sports management as fields of study.

PE 160. Advanced Lifesaving/Lifeguarding. 1+2, Cr. 2. Analysis and practice of skills in swimming and lifesaving which lead to an American Red Cross Advanced Lifesaving Certificate (2 Cr.). Analysis and practice of skills in swimming, lifesaving and lifeguarding which lead to an American Red Cross Lifeguarding Certificate (2 Cr.). Mini or Summer Session only. Prerequisite: Intermediate Swim, instructor's approval.

PE 170. Water Safety Instruction. 1+2, Cr. 2. A study of the techniques for teaching swimming and lifesaving. This course leads to an
American Red Cross Water Safety Instructor's Certificate. Additional hours may be announced. Prerequisite: PE 160 or approval of instructor.

**PE 180. Officiating in Sports.**

Cr. 1. May be offered as a seven-week course. A study of the general principles and techniques involved in officiating interscholastic sports. May lead to state certification when appropriate. Because the course is divided into one-credit sections each dealing with a specific sport, no section may be repeated for credit.

**PE 185. Practicum I in Athletic Training.**

1+1, Cr. 1. The practical application of the clinical proficiencies in athletic training. An additional 5-10 hours per week will be required in the athletic training facility. Prerequisite: admission to the Athletic Training Education Program (ATEP).

**PE 190. First Aid, Health and Safety.**

Cr. 2. Seven weeks course. A study of the prevention and emergency care of sudden illness and injury, which leads to American Red Cross Certification in Advanced First Aid Responding to Emergencies and Community CPR.

**PE 220. Coaching Theory.**

Cr. 1-2. Seven week course. The 1-credit sections involve a study of the methods and principles of coaching interscholastic and intercollegiate sports. The 2-credit section also includes a study of the methods used in the evaluation of the methods of coaching interscholastic and intercollegiate sports. Students will develop a comprehensive seasonal plan for a specific sport. The 1-credit sections may not be repeated with the same sport.

**PE 230. Seminar in Health.**

Cr. 3. A study of the human body in health and disease. Included are studies of major American health concerns, their incidence and prevention.

**PE 233. Theory and Principles of Sports Management.**

Cr. 3. This is the foundations course for the Sports Management concentration. The course includes a study of the sports enterprise and the management function within these settings. Students are exposed to basic organizational and problem-solving techniques.

**PE 235. Prevention and Care of Athletic Injuries.**

2+2, Cr. 3. An investigation of principles pertaining to the prevention and care of athletic injuries. Prerequisite: approval of the instructor.

**PE 240. Philosophical, Historical and Organizational Perspectives in Physical Education.**

Cr. 3. A study of the philosophical, historical, organizational and administrative aspects of physical education.

**PE 250. Dance Patterns and Forms.**

2+2, Cr. 3. A study of dance with emphasis on modern, folk, social and square dance forms as well as teaching techniques.

**PE 255 (formerly PE 355). Therapeutic Modalities.**

Cr. 3. The study and application of the use of thermal, electrical, and mechanical agents in the treatment of sports-related injuries. Field trip to a sports medicine/physical therapy clinic. An additional two (2) hours per week will be required in a sports medicine/physical therapy clinic. Prerequisite: PE 235 and approval of the instructor.

**PE 260. Gymnastics.**

1+2, Cr. 2. This course consists of methods and teaching cues of apparatus and tumbling techniques. May meet three times a week.

**PE 270. The Learning Potentialities of the Out-Of-Dors.**

1+2, Cr. 2. Seven weeks course. An experience of learning opportunities as provided by camping and outdoor education, including outdoor elementary educational activities. Field trips are required as part of the laboratory experience.

**PE 275 (formerly PE 435). Evaluation of Athletic Injuries.**

Cr. 3. An in-depth study of techniques used in the evaluation of athletic injuries. An additional 5-10 hours per week will be required in the Athletic Training facility. Prerequisite: PE 255 and admission to the Athletic Training Education Program (ATEP).

**PE 285. Practicum II in Athletic Training.**

1+1, Cr. 1. The practical application of the clinical proficiencies in athletic training. An additional 5-10 hours per week will be required in the athletic training facility. Prerequisite: PE 185 and admission to the Athletic Training Education Program (ATEP).

**PE 289. Physical Education and Health methods for Classroom Teachers.**

Cr. 2. This course offers content, methods, and materials in health and physical education for elementary classroom teachers. Health and physical education lesson planning, peer teaching, cross-curricular lessons, rhythms and multi-cultural games will be included in course work. Prerequisite: sophomore standing.

**PE 290. Special Topics in Recreation and Leisure Studies.**

Cr. 1-3. An open topic course which may investigate various topics pertaining to recreational and leisure programs (e.g., organization of intramural programs, adult fitness, outdoor recreation program management, pool management, SCUBA).
Physics and Astronomy

Professors Hrivnak, Koetke (Chair), Manweiler; Associate Professor Zygmunt; Lecturer Stanislaus.

Physics is the study of natural phenomena in an attempt to explain the interactions of matter and energy in terms of a limited number of fundamental laws. This study is predicated on careful observation and experimentation, thoughtful analysis, and creative insights. It is both descriptive and prescriptive and encompasses a realm from the submicroscopic particles of the atomic nucleus to the distant constituents of the universe.

In this context, the Physics and Astronomy Department offers a program of study to prepare students for graduate study and for entry-level work as a physicist in government or industry. Fields of study and employment include, but are not limited to, atomic physics, nuclear physics, elementary particle physics, molecular physics, condensed matter physics, quantum electronics, laser optics, astronomy, astrophysics, geophysics, and the Department is well equipped, having a particle accelerator, an astronomical observatory, and extensive computer resources. Students pursue research projects under the direction of members of the faculty.

The Department sponsors a local chapter of the national Society of Physics Students. Qualified students are elected to membership in the national honor society, Sigma Pi Sigma. More information about the department can be found on the internet at <http://www.physics.valpo.edu/>.

Qualified students may obtain cooperative education experiences in a variety of employment situations, including research laboratories and industrial and engineering companies. Up to four credits may be counted towards the minimum 28 credit hours needed for a physics major. With departmental approval, PHYS 481-483 or 497 may be substituted for PHYS 445. For further information, refer to Cooperative Education, College of Arts and Sciences, page 54.

Major. A minimum of 28 credit hours in physics and astronomy (32 credits for a Bachelor of Science degree) constitutes a major. Courses must include the core courses PHYS 243, 245, 250, 281, 310, 345, 371, 445 and 499.

Four concentrations within the physics major have been designed to meet students' educational and career goals. The departmental adviser will assist students in selecting the most appropriate physics major emphasis and the courses which apply within the emphasis.

One year of chemistry is recommended. It is assumed that students majoring in physics will acquire competency in at least one computer programming language (FORTRAN, C, C++). Courses in astronomy may be taken as electives.

The Fundamental Physics Concentration is intended for students primarily interested in pursuing a career in physics and who may anticipate graduate study in physics. In addition to the core courses, the following courses may be used to complete the major: PHYS 360, 372, 381, 421, 422, 430, 440. MATH 430 and 434 are also recommended.

The Astronomy and Space Science Concentration is intended for students interested in careers in astronomy and related fields and who might pursue graduate studies in astronomy or space science. In addition to the core courses, the following courses may be used to complete the major: ASTR 101, 190, 221, 252, 390, and 445, the latter substituted for PHYS 445.

The High School Physics Teaching Concentration is intended for students planning to teach physics at the secondary school level. This emphasis combines the physics major with education courses and professional field experience, and includes PHYS 489. See the description of the Secondary Education program on page 85 for further details. In addition to the Core courses, ASTR 101, 101L, and 221 are recommended.

The Applied Physics Concentration is intended for students interested in the application of physics to problems in a business or industrial environment. In addition to the core courses, students are advised to complete the major by electing courses most closely associated with the
Physics and Astronomy

Mechanics and Materials Minor. A minimum of 16 credit hours which must include PHYS 109, 252, and 440. Other courses should be selected from PHYS 215, 325, 462 and 482.

Electronics Minor. A minimum of 16 credit hours in physics and astronomy constitutes a minor. PHYS 243 and 245 must be included.

Mechanics and Materials Minor. A minimum of 16 credit hours which must include PHYS 109, 252, and 440. Other courses should be selected from PHYS 215, 325, 462 and 482.

Computational Physics—for computer-related applications of physics and computational problem solving. In addition to the major, students are encouraged to complete the Computational Physics minor described below.

Electro-Technology—courses selected from the technological and scientific environments in business and industry. In addition to the major, students are encouraged to complete the Electro-Technology minor described below.

Computer Science Minor. A minimum of 16 credit hours in physics and astronomy constitutes a minor. PHYS 243 and 245 must be included.

Mechanics and Materials Minor. A minimum of 16 credit hours which must include PHYS 109, 252, and 440. Other courses should be selected from PHYS 215, 325, 462 and 482.

Computational Physics—for computer-related applications of physics and computational problem solving. In addition to the major, students are encouraged to complete the Computational Physics minor described below.

Electronics Minor. A minimum of 16 credit hours in physics and astronomy constitutes a minor. PHYS 243 and 245 must be included.

Mechanics and Materials Minor. A minimum of 16 credit hours which must include PHYS 109, 252, and 440. Other courses should be selected from PHYS 215, 325, 462 and 482.

...Continued the degree requirements of the College of Arts and Sciences with a major in physics leads to the Bachelor of Arts degree or the Bachelor of Science degree.

Credit by Examination. Credit for PHYS 111, 112, 141, or 142 may be earned through the Advanced Placement examinations offered by the College Entrance Examination Board.

Approval of Schedules. All students planning to take physics must have their schedules approved by the department adviser.

ASTRONOMY

ASTRONOMY

ASTR 101, Astronomy, 3+0, Cr. 3. A study of the history of mankind's view of the universe including our contemporary understanding of the physical universe. The tools and techniques employed by contemporary astronomers to probe the universe are studied. Topics include the structure of the solar system as revealed by modern space probes, the sun, stellar systems and classification, and the evolution of stars, galaxies and the universe. Special topics such as neutron stars, black holes and the big bang model may also be examined. Only elementary mathematics is required. This course, along with ASTR 101L, may be used to fulfill the Natural Sciences component of the General Education Requirements. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination.

ASTR 101L, Astronomy Laboratory, 0+3, Cr. 1. Laboratory experiences designed to give students personal experience with astronomical equipment, including the astronomical observatory, and with the analysis of astronomical data. Techniques and skills appropriate to physical sciences will also be stressed. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination. Prerequisite or concurrent registration: ASTR 101 or 262.

ASTR 190, Topics in Astronomy and Space Science, Cr. 1-2. The study of various topics of current interest in astronomy and space science, on an introductory level. Prerequisites are dependent on the topic. Interested students are urged to consult the instructor or the Department Chair for specific information.

ASTR 221, Observational Astronomy, 0+3, Cr. 1. Practical observational experience using the 16 inch reflecting telescope and other instrumentation including photographic cameras, photometric photometer, spectrophotograph, and CCD camera and computer. Prerequisite: ASTR 101 and 101L or 262 or consent of the instructor.

ASTR 252, Introduction to Astrophysics, 3+0, Cr. 3. A study of modern astronomy and the physical principles involved. Topics to be studied include the properties and evolution of stars and galaxies. Problems illustrating the quantitative nature of modern astronomy will be solved. This course along with ASTR 101L may be used to fulfill the Natural Science component of the General Education Requirements. Prerequisite or concurrent registration: MATH 131 or 151 and PHYS 243. Students who have taken ASTR 101 need permission from the Department Chair to also take ASTR 262.

ASTR 390, Topics in Astronomy, Cr. 1-4. The study of various topics of current interest in astronomy and space science. Prerequisites are dependent on the topic. Interested students are urged to consult the instructor or the Department Chair for specific information.

ASTR 445, Senior Research in Astronomy, 0+3, Cr. 1-2. This course is identical to PHYS 445 but with a specific focus on problems in astronomy. See PHYS 445 for details. Prerequisites: ASTR 221 and 252.

ASTR 492, Research or Reading in Astronomy, Cr. 0.5-3. Research or reading in astronomy, under the supervision of a faculty member. Prerequisite: consent of the Chair of the Department.

PHYSICS

PHYS 109, Mechanics—Statics, Cr. 3. (Also offered as GE 109.) A course in the resolution and composition of forces and moments as applied to the free body diagram. Topics include principles of equilibrium, first and second moments of areas, study of trusses, frames and machines, friction. Prerequisite: MATH 131 or 151, and PHYS 141.

PHYS 111, Essentials of Physics, 3+0, Cr. 3. The development of basic concepts of physics emphasizes intuition, logic and experiment rather than complex mathematical analysis. Specific topics included are space, time, motion, energy, conservation laws, fluids, sound and heat. Not open to students who have taken PHYS 141. This course along with PHYS 111L may be used in fulfillment of the Natural Science component of the General Education Requirements. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement examination. Prerequisite or concurrent registration: MATH 131 or 151.

PHYS 111L, Essentials of Physics Laboratory, 0+3, Cr. 1. Laboratory experiments test and illustrate fundamental physics concepts and laws closely related to those studied in PHYS 111. Emphasis is placed on experimental learning and on the development of laboratory skills in physical science. Prerequisite: PHYS 111L. Prerequisite or concurrent registration: PHYS 112. Not open to students who have taken PHYS 141L.

PHYS 120, Musical Acoustics, 3+2, Cr. 4. A study of the physical nature of sound waves, the production and measurement of sound and the physical and psychophysical basis of hearing and music. Although this course is of general interest, it is also suitable for music or other arts majors in fulfillment of the Natural Science component of the General Education Requirements.

PHYS 141, Physics: Mechanics and Heat, 3+0, Cr. 3. A study of classical mechanics, including static and dynamic systems, and of thermodynamics. Prerequisites: PHYS 111 and 142. Emphasis is placed on the development of laboratory skills in physics. Prerequisite or concurrent registration: PHYS 142. Not open to students who have taken PHYS 141L.

PHYS 141L, Experimental Physics I, 0+3, Cr. 1. Laboratory experiments test and illustrate fundamental physics concepts and laws closely related to those studied in PHYS 141. Emphasis is placed on the development of laboratory skills in physics. Prerequisite or concurrent registration: PHYS 141. Not open to students who have taken PHYS 141L.

PHYS 142, Physics: Electricity and Magnetism, 3+0, Cr. 3. A continuation of PHYS 141 which treats electricity, magnetism, wave motion and optics. Prerequisite: PHYS 141 and 141L or advanced placement by permission of the Chair of the Department. Not open to students who have taken PHYS 141L.

PHYS 142L, Experimental Physics II, 0+3, Cr. 1. Laboratory experiments test and illustrate fundamental physics concepts and...
PHYS 342. Electronics.
3.5+1.5, Cr. 4. (Also offered as ECE 342.) An introduction to semiconductor theory and the design and analysis of electronic circuits. Topics include diodes, bipolar and field effect transistors, single-stage and multistage amplifiers, frequency response, and feedback. Computer simulation is included as an analysis and design tool. The experiments emphasize evaluation of circuit performance and measurement techniques. Prerequisite: ECE 263 or permission of the instructor.

PHYS 341. Quantum Mechanics I.
Cr. 3. The fundamental concepts and principles of quantum physics are developed in a mathematically rigorous way and applied to atomic, nuclear and solid state physics. Topics include the fundamental postulates of quantum mechanics, the Schroedinger equation, and selected topics such as the harmonic oscillator, orbital and momentum, the hydrogen atom, identical particles, elementary matrix mechanics, multi-electron atoms, and collision theory. Normally offered in the fall semester of odd numbered years. Prerequisites: PHYS 243 and MATH 234 or 265 (both of which may be taken concurrently), or permission of the instructor.

PHYS 342. Quantum Mechanics II.
Cr. 3. A continuation of PHYS 341, with further development and application of quantum theory. Topics include time independent and time dependent perturbation theory with applications, scattering theory, matrix mechanics, multi-electron and molecular systems, elementary Hartree-Fock theory, superconductivity, and elementary relativistic quantum mechanics. Normally offered in the spring semester of even numbered years. Prerequisite: PHYS 241 or the permission of the instructor.

Cr. 3. Nuclear physics for students with physics or engineering backgrounds. Topics include nuclear models, nuclear reactions, alpha, beta, and gamma radioactivity, and fission physics. Prerequisites: PHYS 243. Normally offered in the spring semester of even numbered years.

PHYS 430L. Nuclear Physics Laboratory.
0+3, Cr. 1. An advanced laboratory to study nuclear reactions, nuclear structure, and radioactivity. Experiments may use the 300 keV particle accelerator and a neutron howitzer. Prerequisites: PHYS 310 and 345; corequisite: PHYS 430. Normally offered in the spring semester of even numbered years.

Cr. 3. A presentation of the basic concepts of the quantum theory of matter, with emphasis on physical models which provide a quantitative description of the solid state. Topics includes crystal structure, diffraction, the reciprocal lattice, chemical bonding in molecules and solids, lattice dynamics, phonons, thermal properties, the free electron gas, electron waves in a periodic lattice, band structure, semiconductors, magnetic and optical properties, and superconductivity. Normally offered in the spring semester of odd numbered years. Prerequisites: PHYS 243.

PHYS 445. Senior Research in Physics.
0+3, Cr. 1-2. Each student undertakes a physics research problem. A written report and an oral
Political Science

Professors Baas (Chair), Trost; Associate Professors Kingsland, Lin; Assistant Professor Kraus; Adjunct Assistant Professor Shearer.

Historically, political science has occupied a central position in liberal arts. The study of politics focuses on the values that humans should seek and the particular legal and structural organizations that allow us to realize our desired values. Contemporary political science combines this concern for normative issues with an emphasis on the development of scientific explanation of political matters. Hence, political science now stresses the use of sophisticated scientific procedures and empirical and quantitative methodology in seeking explanations as well as attempting a normative analysis.

A major in political science may lead to many careers including, but not limited to, law, criminal justice, business, education, government service at the state, national, local and international level, politics, policy analysis, campaign management, and work for private interest groups. Many political science graduates eventually go on to law school and other graduate programs.

The Department sponsors a series of informal events where a variety of topics are discussed. The Department also recognizes outstanding student achievement through membership in the Beta Nu Chapter of Pi Sigma Alpha, the national political science honor society.

Special Programs. For information concerning the Lutheran College Washington Consortium Semester and the Washington Semester see pages 12. For information concerning the Semester on the United Nations see page 12.

Community Research and Service Center. The Department of Political Science has established the Community Research and Service Center. The primary goals of the Center are the following: first, to provide research assistance and other services to government, not-for-profit organization, and in some instances, business in Northwest Indiana; second, to provide students the opportunity to learn in an applied setting. Students become integral parts of the Center by taking certain courses and in the process learn basic research methods and gain practical experience in working for and dealing with government, business and other organizations.

Community Outreach Partnership Center. The department administers a Department of Housing and Urban Development grant that seeks to develop university-community partnerships to assist in the revitalization of local neighborhoods. Students are involved in this project as interns, paid assistants and volunteers, and assist in doing research and providing service.

Concentrations in Political Science. The department has developed a number of options for the major and the minor that allow students to pursue their own interests and vocational goals. Concentrations are defined for interest in international relations, legal studies, public policy and public administration, as well as general political science.

Major. A minimum of 30 credit hours in political science constitutes a major. One of the following concentrations must be followed.

General Political Science. The following courses are required: POLS 120, 220, (130 or 230), 240, 493, and 15 additional credit hours in political science.

International Relations Concentration. The following courses are required: POLS 120 or 220, 130, 230, 240, 493 and 15 additional credit hours from the following: POLS 330, 335, and 380 and 490 when the topics are appropriate.

Legal Studies Concentration. The following courses are required: POLS 120, 130, 220, 240, 493 and 15 additional credit hours from the following: POLS 140, 340, 341, 345, and 380 and 490 when the topics are appropriate.

Public Policy and Public Administration Concentration. The following courses are required for this concentration: POLS 120, (130 or 230), and at least 12 additional credit hours.

PHYS 489. The Teaching of Physics. Cr. 3. An exploration of the scientific enterprise involving a study of foundational principles and assumptions of the scientific endeavor, its various methodologies, and its scope and limitations. This will include illustrations from historical case studies and "scientific revolutions". Students will also study the ethical and moral connections between their personal and professional science lives. Prerequisite: junior or senior standing. This course may not be used to fulfill the minimum requirements of a physics major.

PHYS 490. The Scientific Endeavor. Cr. 3. An exploration of the scientific enterprise involving a study of foundational principles and assumptions of the scientific endeavor, its various methodologies, and its scope and limitations. This will include illustrations from historical case studies and "scientific revolutions". Students will also study the ethical and moral connections between their personal and professional science lives. Prerequisite: consent of the Chair of the Department.

PHYS 491. Cooperative Education in Physics I. Cr. 0.5-3. Experience in basic or applied physics with a cooperating employer. Midterm and final written reports required. Prerequisites: PHYS 245 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

PHYS 492. Research or Reading in Physics. Cr. 0.5-3. Research or reading in physics, under the supervision of a faculty member. Prerequisite: consent of the Chair of the Department.


PHYS 499. Physics Colloquium. Cr. 0. All physics majors are expected to register for this course. S/U grade.
POLS 140. The Field of Law.
Cr. 1. A course designed to help students prepare for the professional study of law. Open to all students.

POLS 220. State and Local Politics in the United States.
Cr. 3. Comparative analysis of state and local political systems in the United States. Emphasis is placed on the contemporary role of states and localities in the development and implementation of public policies. May be used in partial fulfillment of the Social Analysis component of the General Education Requirements.

Note: The following courses are not open to freshmen.

POLS 230. International Relations.
Cr. 3. The fundamentals of international politics and international organization, particularly the United Nations and its specialized agencies.

POLS 240. Political Theory.
Cr. 3. An examination of the meaning and utility of political ideals, political systems, and political institutions in contemporary political science. Normative/prescriptive theories as well as analytical and empirical theories are surveyed and examined.

POLS 250. Political Philosophy.
Cr. 3. (Also offered as PHIL 250). A study of major philosophical problems of Western political thought as developed by such philosophers as Plato and Aristotle from the Greeks through the modern day.

Cr. 3. This course is designed to be the place for students to complete their project (either individually or as a team). It will be a research project. The project will vary from semester to semester and students will work together as a team to complete the project.

POLS 270. Political Behavior.
Cr. 3. An exploration of the sources and consequences of individual and group political behavior. The course will include an extensive consideration of the methods necessary to examine political behavior, including computer-aided analysis of survey data.

POLS 320/520. Problems in State and Local Politics.
Cr. 3. A study in depth of important contemporary problems on the state or municipal level in the United States. Prerequisite: POLS 220 or consent of the instructor.

POLS 325/525. Problems in American Politics.
Cr. 3. Intensive study of topics in the public policy process, including the functions of the American political system (e.g., political parties). Prerequisite: POLS 120 or consent of the Chair of the Department.

POLS 326/526. The Presidency.
Cr. 3. An examination of the American Presidency with specific emphasis on the President's constitutional position, the process of nominating and electing a President, Presidential power and behavior, and the President's relationships with the public and coordinate branches of government. Prerequisites: POLS 120 or consent of the Chair of the Department.

POLS 327/527. Congress.
Cr. 3. A study of the legislative processes in which the Congress of the United States and its policy-making and directing roles. Prerequisites: POLS 120 or consent of the Chair of the Department. (This course often includes a field trip.)

POLS 330/530. Politics of Industrialized States.
Cr. 3. A study of political systems in the Western industrialized world. Attention is directed primarily at Western and Eastern Europe, alternately. Prerequisite: POLS 130 or consent of the Chair of the Department.

POLS 335/535. Politics of Developing States.
Cr. 3. A study of the governments and political problems of selected newly independent, underdeveloped states. Areas given in a semester vary across Africa, Latin America, the Middle East and the Far East. Prerequisite: POLS 130 or consent of the Chair of the Department. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

Cr. 3. An analysis of Supreme Court decisions relating to judicial review, the power of national and state governments, federalism, the separation of powers, Presidental and Congressional power and related topics. Prerequisite: POLS 120 or consent of the instructor.

POLS 341/541. Constitutional Law II.
Cr. 3. A continuation of POLS 340 focusing on Supreme Court decisions relating to the Bill of Rights, equal protection, due process, and related topics. Prerequisite: POLS 120 or consent of the instructor. POLS 340 is required.

Cr. 3. An examination of the courts as part of the public policy process with specific emphasis on factors which influence judicial decisions and the impact of court decisions. Prerequisites: POLS 120 or consent of the Chair of the Department.

POLS 355/555. Problems in Political Philosophy.
Cr. 3. The study of one or more specific topics or problems in modern political philosophy. Prerequisites: POLS 220 or consent of the instructor.

POLS 360/560. Public Administration.
Cr. 3. An introduction to the basic principles of administrative organization and management in government. Prerequisites: POLS 120 and junior standing.

POLS 361/561. Public Policy.
Cr. 3. An introduction to the study of the public policy process, focusing on the politics and science of policy formulation, execution and evaluation. Prerequisite: POLS 120.

POLS 380/580. Problems in International Relations.
Cr. 3. An intensive study of topics in international relations. Generally the course covers either American foreign policy or international law. Prerequisite: POLS 230 or consent of the Chair of the Department.

POLS 381. Cooperative Education in Political Science.
Cr. 0.5-3. A cooperative educational program in political science. Prerequisite: POLS 381 and approval of the Chair of the Department. S/U grade. May be repeated beyond 383 for additional credit.

POLS 382-383. Cooperative Education in Political Science II-III.
Cr. 0.5-3. A continuation of POLS 381. Prerequisites: POLS 381 and approval of the Chair of the Department. S/U grade. May be repeated beyond 383 for additional credit.

POLS 386. Internship in Political Science.
Cr. 1-4. Opportunities for students to have direct, supervised experience in governmental agencies, political parties and other political organizations at the national, state, and local levels. Some internships are in conjunction with off-campus programs such as the Washington or United Nations semester. Prerequisite: consent of the Chair of the Department.

POLS 489. The Teaching of Social Studies.
Cr. 3. (See ED 489.) A study in the methods of teaching social studies in secondary schools. Prerequisite: admission to the Professional Semester. This course may not be counted toward a major or minor in Political Science.

POLS 490. Seminar in Political Science.
Cr. 2-3. These are half or full semester courses covering a variety of subject areas, with subtitles and content dependent on instructor choice and student interest. They are of two types, labeled accordingly: (a) reading and discussion seminars or (b) seminars with major papers.

POLS 492. Senior Seminar in Political Science.
Cr. 3. Seminar designed to be the place where students bring their knowledge and skills as political science majors to bear on current political topics in preparation for future service to society and active participation as citizens in a democracy.

POLS 495. Independent Study in Political Science.
Cr. 1-4. Individual research on a specific problem in one of the fields of political science under the supervision of a member of the departmental staff. Written report is required. Prerequisites: major with junior or senior standing and consent of the Chair of the Department.

POLS 497. Honors Work in Political Science.
Cr. 3. See Honors Work, page 53.

POLS 498. Honors Candidacy in Political Science.
Cr. 3. See Honors Work, page 53.
Pre-Seminary Studies

This program of study is administered by the Department of Theology through its Center for Church Vocations. Pre-Seminary Studies is an interdisciplinary program that may be taken only as a complementary academic major, typically along with a first academic major in one of the humanistic disciplines.

Objective. The complementary major in Pre-Seminary Studies is intended to assure that a student preparing for graduate studies at a seminary or divinity school will meet the standards of the ideal pre-seminary curriculum recommended by the Association of Theological Schools as well as the entrance requirements of most seminaries (in particular the seminaries of the Lutheran church bodies in North America). Accordingly, Valparaiso’s program stresses both depth in at least one area of the humanities as well as breadth in the various humanistic disciplines. In addition, it provides a solid preparation in the biblical languages of Hebrew and Koine Greek. The equivalent of a minor in Theology is an integral part of the program, and that minor may be declared by students who do not choose a first major in Theology. A Church Vocations Symposium (THEO 399) is the curricular anchor for this program, where pre-seminary students are joined by students preparing for other church vocations in discussing topics of mutual interest.

Major. A total of 57 credits constitute this complementary major. A substantial number of these credits will meet a variety of requirements in General Education, and other credits will often meet requirements in the student’s first major. Students should consult with the chair of the Department of Theology, who will assign an academic adviser.

Program Requirements. The General Education for the Bachelor of Arts degree is required (see page 42). Careful selection of courses from the list below will meet the General Education Requirements in Theology (9 credits), Foreign Languages (8 credits), History or Philosophy (3 credits), and Global Diversity (3 credits).

A first major in one of the humanistic disciplines or human sciences (e.g., history, philosophy, theology, art, music, classics, psychology, sociology, geography, political science, economics) is also required. Depending on the student’s interests, virtually any major may be chosen; consultation with the chair of the Department of Theology or the Program Director of the Center for Church Vocations is advised. In addition, the following coursework is required:

- **Symposium** 0 Cr.
  - THEO 399 Church Vocations Symposium (each semester the student is enrolled at Valparaiso University)

- **English Composition** 3 Cr.
  - One of the following:
    - ENGL 300 Introduction to Professional Writing
    - ENGL 301 Introduction to Creative Writing
    - ENGL 321 Intermediate Composition
    - ENGL 431 Advanced Composition

- **Literature** 3 Cr.
  - One of the following:
    - ENGL 365 Studies in American Literature
    - ENGL 390 Topics in Literature
    - ENGL 401 American Literature I
    - ENGL 402 American Literature II
    - ENGL 405 Masterpieces of World Literature

- **Western or U.S. History** 3 Cr.
  - One of the following:
    - HIST 200 Developments in Western Culture through the Ages
    - HIST 328 The Age of Anxiety: United States since 1945

- **Non-Western History** 3 Cr.
  - One of the following:
    - HIST 240 Introduction to East Asian Culture
    - HIST 250 African History and Society
    - HIST 341 Revolution and Its Roots: The Making of Modern China
    - HIST 342 Tragedy and Triumph: The Making of Modern Japan
    - HIST 350 Colonialism and Independence: Understanding Modern Africa

- **Logic** 3 Cr.
  - PHIL 150 Logic and Critical Thinking

- **Philosophy** 3 Cr.
  - One of the following:
    - PHIL 275 Ancient and Medieval Philosophy
    - PHIL 280 Early Modern Philosophy
    - PHIL 330 Philosophy of Religion

- **Greek** 16 Cr.
  - FLGK 101 First Semester Greek
  - FLGK 102 Second Semester Greek
  - FLGK 203 Intermediate Greek
  - FLGK 320 Koine Greek

- **Hebrew** 8 Cr.
  - FLH 101 First Semester Hebrew
  - FLH 102 Second Semester Hebrew

- **Theology/Bible** 6 Cr.
  - THEO 311 Understanding the Old Testament
  - THEO 312 Understanding the New Testament

- **Theology/Doctrine** 6 Cr.
  - THEO 330 Topics in Contemporary Theology
  - THEO 334 Constructive Christian Theology

- **Theology/World Religions** 3 Cr.
  - One of the following:
    - THEO 260 Perspectives on the Religious Quest
    - THEO 361-368 An upper level course in non-Christian religions

Recommended Additional Elective Courses:
- MUS 473 Church Music
- MUS 213 Basic Conducting
- MUS 060 Kantorei
- MUS 003 Lessons in piano/organ/voice

Courses which are specified as required in the Pre-Seminary Studies Major and which are from the discipline of the student’s first major may be counted toward both major concentrations.
Psychology

Professors Arkkelin (Chair), Rowland; Associate Professors Clements, Nelson; Assistant Professors Carlson, Hughes, Vernon, Winquist.

Psychology is the scientific study of mental processes and behavior. The diversified interests of its faculty enable the Department to present a comprehensive view of the field. Courses in physiological, experimental, social, industrial, developmental and clinical-counseling psychology are offered. Opportunities for laboratory research in psychology and applications through field experiences are available.

A major in psychology may lead to careers in such fields as psychological counseling, recreational therapy, employment counseling, rehabilitation therapy, test consulting, demography, personnel, managing, marketing, behavior therapy, psychological research and teaching. In addition, psychology can be an excellent preparation for career in medicine and allied health professions when combined with appropriate courses in other sciences such as biology, chemistry, and physics.

Student Organizations. Psi Chi, the national honor society, was installed at Valparaiso University in 1990. Psychology majors and minors who have completed at least nine credit hours in psychology and at least three semesters of undergraduate study, and who have demonstrated superior scholastic achievement may be selected for membership.

Students interested in participating in social activities with the psychology students and faculty are invited to join the Psychology Club.

Major. A minimum of 27 credit hours in psychology constitutes a major for the Bachelor of Arts degree, provided that a second major or a minor is taken. A minimum of 40, but not more than 48, credit hours in psychology fulfills the requirements for a Bachelor of Arts degree without a second major or a minor. Courses must include PSY 110 (with or without 111), 201, and 202; one experimental psychology course (selected from PSY 240, 245, 250, 345, 350, 355), one course in personality/social psychology (selected from PSY 125, 265, 300, 332, 333), and one course in clinical/applied psychology (selected from PSY 235, 270, 445, 461, 465, 470). One additional experimental course with a laboratory (245/246, 250/251, 345/346, 350/351, or 355/356) must be taken. It is recommended that students also take a minimum of one course as a capstone experience to their program. Courses suitable for this experience include PSY 390, 485, 495, and 499.

A minimum of 32 credit hours in psychology fulfills the minimum requirement for a Bachelor of Science degree with a single science major plus one of the following: a non-science second major, a Liberal Arts Business minor, or a science minor (biology, chemistry, mathematics, or physics). Courses must include PSY 110, 201, 202; two experimental psychology courses with laboratory (selected from PSY 245/246, 250/251, 345/346, 350/351, or 355/356), one course in personality/social psychology (selected from PSY 125, 265, 300, 332, and 335), and one course in clinical/applied psychology (selected from PSY 235, 270, 445, 461, 465, 470). In addition to the 32 credits in psychology, students must complete BIO 151 or higher and MATH 122 or higher.

A minimum of 27 credit hours in psychology fulfills the minimum requirement for a Bachelor of Science degree, provided that a second major is taken in another science (biology, chemistry, mathematics, or physics). Courses must include PSY 110, 201, 202; two experimental psychology courses with laboratory (selected from PSY 245/246, 250/251, 345/346, 350/351, or 355/356), one course in personality/social psychology (selected from PSY 125, 265, 300, 332, and 335), and one course in clinical/applied psychology (selected from PSY 235, 270, 445, 461, 465, 470). In addition to the 27 credits in psychology, students must complete BIO 151 or higher and MATH 122 or higher.

Credit by Examination. Credit for PSY 110 may be earned through the College Level Examination Program subject examination in Introductory Psychology.

Approval of Schedules. All students taking a major or minor in psychology must have their schedules approved by the Chair of the Department or their assigned departmental adviser.

110. General Psychology. Cr. 3. An introduction to the field of psychology with strong emphasis upon the scientific study of behavior. Topics include nervous system functioning, sensation and perception, learning, memory, cognition, development, motivation, emotion, social behavior, psychological dysfunction and treatment. When taken concurrently with laboratory (PSY 111), may be used to fulfill the Natural Science component of the General Education Requirements.

111. Laboratory in General Experimental Psychology. 0+2.5. Cr. 1. Laboratory to be taken concurrently with PSY 110. Students study psychological phenomena and methods directly through various laboratory experiments. When taken with PSY 110, fulfills Natural Science component of the General Education Requirements. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement exam.

Note: PSY 110 (with or without 111) is a prerequisite for all other psychology courses. This prerequisite may be waived for non-psychology majors with the chair’s permission. PSY 201 is a prerequisite for PSY 202. PSY 202 is a prerequisite for all laboratories in psychology (excluding PSY 111) and for PSY 495. PSY 245, 250, 345, 350, or 355, when taken with the corresponding laboratory, may be used in partial fulfillment of the Natural Science component of the General Education Requirements.

PSY 125. Social Psychology. Cr. 3. An interdisciplinary approach to the study of social influences on the psychological functioning and behavior of the individual.

PSY 201. Statistical Methods. Cr. 3. An introduction to the fundamentals of descriptive and inferential statistics for the behavioral sciences. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement exam.

PSY 202. Research Methods in Psychology. Cr. 3. The basic principles and methods of research in psychology focusing on the experimental method and the skills necessary to design, carry out, interpret and write up a research project. Prerequisite: PSY 201.

PSY 235. Abnormal Psychology. Cr. 3. An analysis of psychopathology within the framework of theory and research.

PSY 240. Evolutionary Psychology. Cr. 3. Understanding of human and animal behavior and cognition based on evolutionary principles and the use of the comparative approach. Includes topics on aggression, strategies of mate selection and parenting, intelligence, and consciousness.

PSY 245. Physiological Psychology. Cr. 3. A study of the structure and function of the nervous system in relation to motivation, emotion and cognitive function.

PSY 246. Laboratory in Physiological Psychology. 0+2.5. Cr. 1. Optional laboratory to be taken in conjunction with PSY 245. Prerequisite: PSY 201 and 202 or consent of the instructor.

PSY 250. Principles and Applications of Learning. Cr. 3. Concepts of learning derived from research with human and nonhuman subjects with emphasis on the use of these concepts and techniques to help solve common behavioral problems.
### PSY 251. Laboratory in Principles and Applications of Learning.
0+2.5, Cr. 1. Optional laboratory to be taken in conjunction with PSY 250. Prerequisite: PSY 201 and 202 or consent of the instructor.

### PSY 270. Introduction to Industrial/Organizational Psychology.
Cr. 3. Applications of psychological principles, techniques, and theories to the work environment. Topics will include leadership, motivation, job satisfaction, performance appraisal, employee selection, and teamwork.

Cr. 3. A practicum giving first-hand experience in utilizing behavior modification techniques to facilitate acquisition of pre-learning skills by autistic children. Open to majors and non-majors. Prerequisite: consent of the instructor. S/U grade only.

### PSY 330/530. Child and Adolescent Development.
Cr. 3. Study of the maturation, cognitive, social and behavioral changes associated with the development of the child through adolescence.

### PSY 332/532. Psychology of Adulthood and Aging.
Cr. 3. Examination of adult development from the end of adolescence to old age from a psychological perspective.

### PSY 335/535. Psychology of Personality.
Cr. 3. An introduction to various theories of personality, with emphasis on their implications for current psychological applications and research.

### PSY 345. Sensation and Perception.
Cr. 3. An introduction to the study of sensory and perceptual processes and the physiological mechanisms that underlie them.

### PSY 346. Laboratory in Sensation and Perception.
0+2.5, Cr. 1. Optional laboratory to be taken in conjunction with PSY 345. Prerequisite: PSY 201 and 202 or consent of the instructor.

Cr. 3. The study of various aspects of human learning, memory, and thought, such as perception, attention, development of expertise, problem-solving, reasoning, and language.

### PSY 351. Laboratory in Human Cognition.
0+2.5, Cr. 1. Laboratory to be taken in conjunction with PSY 350. Prerequisite: PSY 201 and 202 or consent of the instructor.

### PSY 355. Environmental Psychology.
Cr. 3. The study of interrelationships between the physical environment and human behavior, including environmental perception, psychological effects of pollution, personal space, crowding, urbanization, architectural design, and energy consumption.

### PSY 356. Laboratory in Environmental Psychology.
0+2.5, Cr. 1. Optional laboratory to be taken in conjunction with PSY 355. Prerequisite: PSY 201 and 202 or consent of the instructor.

### PSY 390/590. Special Topics in Psychology.
Cr. 1-3. Selected topics based on the special interest areas of students and faculty. Recent topics have included cross-cultural psychology, psychology of women, industrial psychology, psychology of religion, and altered states of consciousness. Topics and descriptions are announced in advance.

**Note:** The following courses are restricted to junior and senior level students.

### PSY 445/545. Community and Health Psychology.
Cr. 3. An introduction to the theories and practice of both community psychology and health psychology with an emphasis on the relationship and synthesis of these two disciplines as well as their unique differences.

### PSY 461. Introduction to Counseling.
Cr. 3. A review of contemporary counseling theories and processes as they are applied to various problem areas.

### PSY 465/565. Psychology and Law.
Cr. 3. The application of psychological knowledge to the legal system. Topics will include eyewitness testimony, jury decision-making, the insanity defense, jury selection and lie detection.

### PSY 470/570. Testing and Measurement.
Cr. 3. Principles and methods of psychological measurement and evaluation with application to specific testing situations. Course intensification option: 1 Cr. Prerequisite: PSY 201.

### PSY 485. Psychology Practicum: Field Experience.
Cr. 1-3. Emphasis on, but not limited to, functions of social-service and mental-health agencies. Each student spends 4-10 hours each week in supervised work activity at an agency in Northwest Indiana and two hours every other week in a classroom-discussion meeting. A written report is required. Prerequisites:
Social Work

Associate Professor Walton (Chair); Assistant Professors Petties, Ringenberg.

Social work is the profession that serves individuals, families, and communities who seek preventative and rehabilitative interventions for an improved quality of life. Focused on social and emotional development within the social environment, the scope of social work is national and international. The profession is social justice and action oriented.

The primary function of this undergraduate program is to prepare the liberal arts student for advanced standing in graduate social work education. The department and the professional community provide educationally directed series of internships.

Students utilize the foundation curriculum to prepare for child welfare, community mental health, aging, church, urban studies, or school social services. Joint academic studies exist between the Department, the Lutheran Ethnic Social Sciences, the College of Arts and Sciences, the General Education Requirements, leads to the Bachelor of Social Work degree.

Approval of Schedules. All students major in social work must have their schedules approved by the Chair of the Department or an assigned adviser at the beginning of each semester.

SOCW 151. Introduction to the Profession of Social Work. Cr. 3. A general overview of the social work profession, its history, purpose, and mission. Students are introduced to the basic concepts, values, and skills of the professional social worker.

SOCW 210. Social Welfare: Policy and Services. Cr. 3. The objectives of this course are historical overviews of the economics, social and political forces that shape the social welfare structure. Descriptive analyses of current social welfare programs, public and private, are examined. Professional values and ethics underlie the content that further examines macrosystem matters affecting human diversity and social justice. Prerequisite: SOCW 151 (may be taken concurrently by junior and seniors) or consent of the Chair of the Department.

SOCW 220. Human Behavior and Social Environment. Cr. 3. A study of bio-psycho-social variables that affect human development and behavior. The use of various theoretical, primarily developmental frameworks are examined within the context of individual adaptation to social-cultural-environmental factors. Gender, race, sexual orientation, and social class issues related to life cycle stages are critically studied. Prerequisite: SOCW 151 or consent of the Chair of the Department.

SOCW 240. Strategies of Intervention. Cr. 3. A beginning study of human intervention theories, models, and methods. Ecosystems and psychosocial models are applied to methods for individual and group interactions. Case material and experiential units are examined in video laboratory exercises. Prerequisites: SOCW 151, 210, 220.

SOCW 330. Vulnerable Populations: Color, Gender, and Orientation. Cr. 3. This course explores the sociopolitical factors that affect current human responses of diversity. Major North American populations of African, Mexican, Asian, Native American descent, women of color, sex-identified groups, and select international and national organizations of oppression are examined in the context of social work's approach to group development and interventions. From a systems perspective of social change and human rights, the emerging cultural response and macro systems policy development are foundational to this study of diversity. Issues around racism, sexism, and heterosexism surface as factors in social change. Prerequisites: SOCW 151, 210, 220; junior/senior status; consent of the department. May be used to fulfill the U.S. Diversity component of the General Education Requirement.

SOCW 340. Professional Intervention and Human Services. 3-4 Cr. 4. A course that introduces the student to human systems theories and models (individual, group, community) and to the variety of social work interventions. A community field experience is required. Prerequisites: SOCW 151, 210, 220 and 240.

SOCW 365. Introduction to Methods of Social Research. Cr. 3. This course examines the application of concepts of research methodology to social work practice. The research content will include qualitative and quantitative research methodologies; analysis of data, including statistical procedures; systematic evaluation of practice; analysis and evaluation of theoretical bases in research methods and reports; and relevant technological advances. Prerequisite: SOCW151, 210, 220, 240, and PSY 201.

SOCW 390. Social Work Colloquium. Cr. 2-3. A selection of topics reflective of contemporary concerns for the socially worker, such as adulthood, women, clinical methods and techniques for helping professions, housing, ethics, substance abuse, juvenile delinquency, and poverty. Listings are announced. Prerequisite: junior standing or consent of the Chair of the Department.

SOCW 391. Advanced Seminar in Social Work. Cr. 1-3. Full- or half-semester courses specializing in particular areas of social work practice or methodology such as administration, current issues in group services, family therapy, new techniques for solving community problems, supervision, and children's services. Prerequisites: junior or senior standing and consent of the Chair of the Department.

SOCW 395. Independent Study. Cr. 1-3. Prerequisite: junior standing and consent of the Chair of the Department.

SOCW 410. Analysis of Social Policy. Cr. 3. An intensive study of social welfare programs, principally in the United States, and a historical review of the contemporary forces, primarily social and economic, that have shaped their development. Areas included are public policy, income maintenance and health care services. Prerequisites: senior standing, consent of the Chair of the Department, SOCW 151, 210, 220, 240, 330, 365.

SOCW 455. Social Work Practice I. Cr. 3. This course introduces students to the field of social work. Students will be exposed to the values, principles, and skills of social work practice. Students will have the opportunity to participate in a simulated social work agency setting. Prerequisites: junior standing and consent of the Chair of the Department.

SOCW 456. Social Work Practice II. Cr. 3. This course will focus on the application of social work theories and skills in a simulated social work agency setting. Students will have the opportunity to participate in a simulated social work agency setting. Prerequisites: junior standing and consent of the Chair of the Department.

SOCW 493. Current Issues in Social Work. Cr. 1. This seminar is jointly designed by senior majors and faculty to deal with those issues of concern which currently face clients and practitioners in the social services delivery system. Prerequisite: senior standing or consent of the Chair of the Department.


Sociology and Criminology

**Associate Professor Venturelli; Assistant Professor Johnson; Adjunct Assistant Professor D. Bartusch, Yogan (Acting Chair).**

The Department of Sociology encompasses the disciplines of sociology, criminology, and anthropology, and seeks to provide a broad-based understanding of the organization and dynamics of human society and culture. Its subject matter ranges from intimate family life to the broader issues of ethnicity, race and gender, from crime to religion, from the divisions of social class to the shared beliefs of a common culture. Its primary focus is on social relationships in a wide variety of cultural and social settings.

The department's programs seek to help students achieve an awareness of the world in which they live, and of the causes and consequences of human social behavior. Its basic objective is to aid students to understand themselves, the groups in which they participate, as well as the dynamics of everyday life. By expanding their knowledge of the field, its theories, concepts and research methods, and by acquiring insights to their world from the study of different peoples and cultures, students develop skills in social analysis, enhance their capacity for self-evaluation, and grow in their ability to make informed judgments about key social issues in a multicultural society.

To achieve these objectives, the department has developed a curriculum grounded in the liberal arts tradition that is flexible and responsive to student needs. While all majors are required to enroll in a core of basic sociology courses, the curriculum allows students to pursue interests and specializations within sociology as a field of study.

**International Honor Societies.** The department encourages qualified students to join honor societies in sociology and the social sciences. Such organizations recognize outstanding scholarship and achievement. There are two international honor societies for which majors in the department may qualify. First, the department sponsors the Nu Chapter of the international honor society in sociology, Alpha Kappa Delta. Second, the administration, are strongly encouraged to complete degree requirements by adding an individualized minor in Justice Administration or some other individualized minor relevant to one's course of study and career plans. It is recommended that students planning an individualized minor select courses from the following: PSY (110 or 111), 201 and 235; MGT 304; and POLS 120, 220, 340, 341, 345, and 360. Other programs which are suggested to complete degree requirements are the Liberal Arts Business Minor (page 229) or the Chicago Urban Semester (page 56).

**Minor.** A minor consists of at least 18 credit hours in sociology. Courses must include SOC 110, 310, and at least one 200 level course, one 300 or 400 level course, and one course from any level.

**Degree.** Completion of the degree requirements of the College of Arts and Sciences along with the concentration requirements of the Department of Sociology leads to the Bachelor of Arts degree.

**Credit by Examination.** Credit for SOC 110 may be earned through the College Level Examination Program in Introductory Sociology.

**Approval of Plan of Study.** Each student taking a major or minor in sociology must have a plan of study approved by designated departmental advisers.

**Level I.** Level I courses are designed to give students a broad overview of sociology. These courses typically expose the student to many different sociological topics and are taught at the introductory level.

**SOC 110. Introduction to Sociology.** Cr. 3. The analysis of the major institutions, structures and processes of American society, as well as an introduction to the basic theoretical and methodological approaches of the discipline. Offered every semester. May be used in partial fulfillment of the Social Analysis component of the General Education Requirements. Normally offered every semester.

**SOC 130. The Criminal Justice System.** Cr. 3. A survey of the operations, functions and interactions of the police, the courts and correction agencies; that is, formal organizations of social control. Field trips and observation of selected agencies may be scheduled. Normally offered every fall.

**SOC 150. Introduction to Anthropology.** Cr. 3. An introduction to the study of humankind, and an overview of the five major branches of anthropology: biological anthropology, archeology, linguistics, cultural anthropology, and applied anthropology. May be used in partial fulfillment of the Social Analysis component and for the Global Cultures and Perspectives component of the General Education Requirements.

**SOC 160. Contemporary Social Problems.** Cr. 3. Sociological perspectives are applied to the identification, explanation, and analysis of social problems in American society and in selected world societies. Course content focuses on: 1) examining the major institutions of society—the family, economy and politics—and how they can perpetuate social problems; and 2) examining inequalities based on class, race, and gender. These topics can include poverty, homelessness, racism, sexism, drug abuse, crime, juvenile delinquency, and violence. May be used in partial fulfillment of the Social Analysis component and for the U.S. Cultural Diversity component of the General Education Requirements.

**Level II.** Courses which focus on one broad sociological topic and provide information about fundamental concepts and theoretical approaches used within sociology. No prerequisites.

**SOC 220. The Family.** Cr. 3. A study of the family as a basic social unit and institution, with emphasis on the various functions and forms of the family. Special consideration is given to modern influences on the interaction and organization of American family life. Normally offered in the spring of even-numbered years.

**SOC 230. Globalization.** Cr. 3. An exploration of the globalization process, including the changing organization of the world economy, the globalization of industry from a sociological perspective, problems of population growth and environmental degradation, and the spread of ethnic conflicts. The course will examine the implications of globalization for politics, culture, work, gender, the environment, social movements and violence. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

**SOC 245. Social Psychology.** Cr. 3. The social-psychological study of the ways society influences the behavior of the individual. Course focuses on the theoretical approaches of symbolic interactionism, social exchange, and dramaturgical analysis.

**SOC 250. Principles of Social/Formal Organizations.** Cr. 3. The study of formal social organizations taught through an analysis of classical and current theoretical perspectives regarding the
Sociology and Criminology

sociology and social psychology of organizations and organizational behavior. Topics will include a study of organizational structure and environment, public and private organizations, centralization versus decentralization, bureaucracy, and the role of racism and sexism in organizations.

SOC 260. Deviance.
Cr. 3. An examination of deviant behavior with emphasis upon theories explaining how people become deviants. Surveys the forms of deviance: crime, mental illness, drug and alcohol abuse, and sexual deviation. Field trips may be scheduled.

Cr. 3. As an introduction to criminology, this course examines criminal behavior, the theories used to explain crime, and a brief analysis of societal responses to crime. Prerequisite: Sociology 130 or consent of the Chair of the Department.

SOC 270. Juvenile Delinquency.
Cr. 3. A criminological course that focuses specifically on crime committed by youth, typically early through late adolescence. This course explores the nature and extent of delinquency, theory and research, and societal responses to delinquency.

SOC 275. Systems of Social Stratification.
Cr. 3. This course examines three major social division found in the United States and in other postmodern societies. The course will examine: 1) gender and identity, 2) social class, and 3) race and ethnicity. May be used in partial fulfillment of the Social Analysis component and for the U.S. Diversity component of the General Education Requirements.

Level III. Courses designed to provide depth of experience and understanding in narrow subject areas. SOC 110 or consent of the Chair of the Department serves as a prerequisite for all courses at Level III. Some courses may have additional prerequisites.

Cr. 3. Study of the historical development of sociological thought and the contributions of major theorists and their understanding of society. Required of all majors and minors. Prerequisite: SOC 110 or consent of the Chair of the Department.

Cr. 3. Study of research methodology used in both qualitative and quantitative sociological contexts. Skills are taught through small-scale projects whenever possible. Required of all majors and minors. Prerequisite: SOC 110 or consent of the Chair of the Department.

SOC 321/521. Data Analysis.
Cr. 3. This course teaches basic level analysis of both qualitative and quantitative data. Students will learn how to use software packages to analyze quantitative and qualitative data. The class will also cover inferential and descriptive statistics, how to code data, how decisions are made about data (what to include, what to eliminate), and how to report data analysis in ways that meet the needs of different constituent groups. Prerequisites: SOC 110 and 320, or consent of the chair of the department.

SOC 325/525. Urban Sociology.
Cr. 3. An examination of the city as a social system. Emphasis placed upon the historical, demographic, and ecological development of urban areas, along with an exploration of major problems confronting American cities. Development of urban life style is also examined. Prerequisite: SOC 110 or consent of the chair of the department.

SOC 327/527. Aging in American Society.
Cr. 3. An examination of the social aspects of aging; this course seeks to explore the demographic, historic, theoretical, and cross-cultural perspectives on aging. Specific emphasis is placed on major problem areas for the elderly in America, including medical care, housing, family relationships, work and leisure, and finances. Prerequisite: SOC 110 or consent of the chair of the department.

Cr. 3. Offered only at the Pueblo, Mexico, Study Center.

SOC 340/540. Gender.
Cr. 3. An introduction to how society defines and structures gender identity and behavior for males and females. The course focuses on the biological and social construction of gender and how those are interpreted through history, language, sexuality, race, family structure, dating patterns, religion, and work environments. Prerequisite: SOC 110 or consent of the chair of the department.

SOC 347/547. Race and Ethnic Relations.
Cr. 3. A survey of the racial and ethnic structure of American society, with special emphasis upon ethnic stereotyping and power, plus political and economic institutionalized racism and prejudice. Examines how racial and ethnic background influence social behavior. May be used to fulfill the U.S. Cultural Diversity component of the General Education Requirements. Prerequisite: SOC 110 or consent of the chair of the department.

Cr. 3. An examination of policing at the local, state and federal levels, from historical and contemporary points of analysis, with emphasis on the relationship between law enforcement and other criminal justice agencies. Prerequisite: SOC 110 or consent of the chair of the department.

SOC 360/560. Penology.
Cr. 3. A critical social scientific examination of prisons, jails, community corrections and parole authorities with emphasis on both historical development and current trends. Field trips may be scheduled. Prerequisite: SOC 110 or consent of the chair of the department.

SOC 386. Internship in Sociology/Criminal Justice/Anthropology.
Cr. 3. Internships are organized to provide students with some measure of "hands on" experience in their field of interest. Students are required to develop a contract with both the agency to which they are assigned and a supervising instructor outlining basic expectations. A minimum of 128 internship hours and a biweekly class are required. Students planning an internship in a spring semester must complete an application for placement with the Internship Coordinator by October 1. For those students planning an internship in a fall semester, the deadline is April 1. Experience and workload vary with both the field of study and the agency assignment. Required of all criminology students, recommended for all others. Prerequisites: SOC 110, junior standing and consent of the internship coordinator.

SOC 390/590. Issues in Sociology.
Cr. 3. An exploration of some of the issues debated by sociologists today. Issues may include sexism, racism, ageism. May be repeated for credit if the issues are different. Prerequisite: SOC 110 or consent of the chair of the department.

SOC 391/591. Issues in Criminology.
Cr. 3. An exploration of some of the issues debated by criminologists today. Issues may include feminist or Marxist criminology, new left realism, criminology as peace making, victimology, and cross-cultural comparative crime. May be repeated for credit if the issues are different. Prerequisite: SOC 110 or consent of the chair of the department.

SOC 392/592. Issues in Anthropology.
Cr. 3. An exploration of some of the issues debated by anthropologists today. These include globalization and sociocultural development, sickness and health, nationalism, culture and identity, science and technology, global media, and ethnography and narrative. May be repeated for credit if the issues are different. Prerequisite: SOC 110 or consent of the chair of the department.

Cr. 3. The study of the place of law in society, the relationship between law and social change, law and other social institutions. Prerequisite: SOC 110 or consent of the chair of the department.

SOC 481. Cooperative Education in Sociology/Criminal Justice/Anthropology.
Cr. 1-3. Work experience in a cooperating public or private service agency. Written reports required. Prerequisites: Junior standing and approval of the Chair of the Department.

SOC 482-483. Cooperative Education in Sociology/Criminal Justice/Anthropology II-III.
Cr. 1-3. Continuation of SOC 481. Prerequisites: SOC 481 and approval of the Chair of the Department. May be repeated beyond 483 for additional credit.

SOC 486. Internship in Criminal Justice II.
Cr. 3. Continuation of SOC 386. Prerequisite: SOC 386.

SOC 489. Senior Seminar.
Cr. 3. An integrative reading, discussion, and research course that applies prior sociological knowledge to contemporary concerns and problems. Required of all concentrations. Prerequisite: senior standing or consent of the Chair of the Department. Normally offered every spring.

SOC 495. Independent Study in Sociology/Criminology.
Cr. 1-4. Independent investigation of a specialized topic in sociology. May be taken more than once for credit if the topics are different or if the topics are to be continued.

SOC 497. Honors Work in Sociology.
Cr. 3. See Honors Work, page 53.

SOC 498. Honors Candidacy in Sociology.
Cr. 3. See Honors Work, page 53.
Theatre

Professor Paul (Chair); Assistant Professors A. Kessler, White; Lecturer Stalmah.

The Theatre Department prepares students for service to a society in which knowledge of the speech and theatre arts is increasingly important to success in a variety of professional vocations including communication, education, entertainment, the law and religion. The program is designed to engage students in studies of the rich heritage of theatre arts and dance in Western and non-Western cultures. The co-curriculum provides students with opportunities for disciplined creative expression.

The department serves: (1) majors and minors who are preparing for careers in theatre and allied industries or in industries where knowledge of theatre production is required; (2) students who take the academic courses to meet the General Education Requirements or who find courses in drama and dance to be attractive components of a liberal arts education; and (3) participants in faculty-supervised co-curricular theatre and dance productions as a way of enriching their lives.

The department offers students a wide range of studies including acting, dance, design, directing, production, technology, and writing. The study of dramatic literature is given special prominence in the curriculum.

Major. A minimum of 34 credit hours in theatre. The theatre major must include THTR 129, 133 (repeated 3 times), (134 or 136), 230, 231, 232, 235, 238, 239, (334 or 337), and one from (356, 431, and 435).

The drama major must include THTR 141, 235, 238, 239, 252, 334, 337, and 390.

Elective courses may be chosen from the department’s offerings and from approved electives from other humanities departments, such as English, Foreign Languages and Literatures, and History.

Minor. A minor in theatre consists of 16 credit hours in courses agreed upon by the student and the department chair. The minor may include a one-credit independent project.

SPECIALIZED MINORS

Acting Minor. The minor must include THTR 134, 136, 141, 230, (235 or 236), and 357. toward the end of the completion of the course work, the student in Acting must do an independent project (THTR 390) for one credit hour, preparing scenes, and monologues for public performance.

Musical Theatre Minor. A minimum of 16 credits in theatre and dance. The minor must include THTR 136, 235, 290 (two different dance topics totaling 6 credits) and (335 or 337). Toward the end of the completion of course work, the student minor in Musical Theatre must complete an independent project (THTR 390, 1 Cr.) culminating in a public performance.

Theatre Production Minor. The minor must include THTR 230, 231, 235, (431 or 433), and one course in theatre literature (238, 239, 334, or 337). Toward the end of the completion of the course work, the student in Theatre Production must do an independent project (THTR 390, 1 Cr.) directing a short play for public exhibition.

Theatre Design Minor. The minor must include THTR 230, 231, 356, and one course in theatre literature (238, 239, 334, or 337). Toward the end of the course work, the student in Theatre Design must do an independent project (THTR 390, 1 Cr.) preparing designs and working drawings for costumes, scenery and lighting for a selected play or dance production.

Teaching Programs. Students who plan to teach speech, theatre, or dance in secondary schools with a major or minor in Theatre should consult the Chair of the Department and the Education Department for specific requirements.

Cooperative Education. Qualifying students may participate in prearranged, approved professional work experiences. During their employment, students are financially compensated by the cooperating employer. Credits earned in this program apply toward the major and may substitute for other required courses with the consent of the Chair of the Department. For further information, refer to Cooperative Education, College of Arts and Sciences, page 54.

Degree. Completion of the degree requirements of the College of Arts and Sciences with a major in theatre or drama leads to the Bachelor of Arts degree.

Approval of Schedules. All students pursuing a major or minor in Theatre must have their schedules approved by the Chair of the Department or a designated departmental advisor at the beginning of each semester.

The University Theatre. A co-curricular venue for the study and practice of theatre art, the University Theatre is also a community of thoughtful student and faculty artists and craftspeople serving the students of Valparaiso University. By bringing to the public stage productions of classic and contemporary plays, the University Theatre offers its campus, local, and regional audiences the opportunity to explore the human condition and to celebrate the richness of life itself. The University Theatre is dedicated to excellence in play production, to the development of the skills of understanding, analysis, preparation, and performance of plays in students who are committed to vocations in the theatre, and to the enrichment of the lives of all those who participate in its activities.

The University Theatre’s programs include a season of three major productions, experimental theatre, student-directed plays, Soul Purpose, a touring chancel drama troupe, and theatre outreach performances. Theatre work is focused in performance, production, and management. Advanced students regularly supervise in all areas. Majors in the department are expected to participate actively and frequently in the programs of the University Theatre.

THTR 101. Introduction to Theatre.
Cr. 3. An introduction to the field of theatre, especially during the past twenty-five years. Field trip to Chicago. May be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements. Offered each semester.

THTR 129. Basic Stagecraft.
2+2, Cr. 3. An introduction to the technology, terminology and practices of modern stagecraft. This course prepares students for more advanced work in theatre technology, costume construction and design, scenery construction and design, lighting design and stage management. Offered fall semester.

THTR 133. Theatre Practicum.
0+2, Cr. 1, or 0+4, Cr. 2. Creative work in the production of stage plays or dance productions. Students majoring in theatre must elect this course a minimum of four times (4 credits total) each time in a different production area: (i) management, (ii) scenery and lighting, (iii) costume and makeup, and (iv) performance. This course may be repeated up to maximum of six credit hours.

THTR 134. Voice and Diction.
Cr. 3. An introduction to voice and speech science. Enhancement and correction exercises as well as the International Phonetic Alphabet to aid in articulation improvement, dialect correction and/or acquisition. Offered fall semester.

THTR 136. Movement for the Theatre.
Cr. 3. A course in developing the physical skills required for live theatrical performance emphasizing skeletal alignment and correct body placement for the purpose of developing efficient, economical movement. The physical, emotional, and psychological motivations of movement are explored. Offered spring semester. May be repeated once for credit.

THTR 141. Oral Interpretation.
Cr. 3. A basic course stressing the communication of thought and feeling from the printed page to the listener. Emphasis is on analysis, interpretation and reading of drama, verse and prose. Offered spring semester in even-numbered years.

THTR 230. Makeup and Costume.
2+2, Cr. 3. An introduction to the design and practice of stage and studio costumes and makeup, with discussion of materials, equipment and historical background. Offered in the fall semester.

THTR 231. Scenery and Lighting.
2+2, Cr. 3. An introduction to the design and practice of scenery building, lighting for the stage and studio, and production management. Offered each spring semester. Prerequisite: THTR 129.

Cr. 3. Students will be introduced to the theories, methods, and performance practices of Applied Theatre and will explore theatre techniques used outside of traditional theatre professions, focusing especially on theatre’s use in education, psychology, and sociology. Fieldwork for this course will include performances of plays, developed and rehearsed in class, in local schools. This interdisciplinary course will be useful for students preparing for a variety of professions. Offered in the spring semester of each year.
THTR 252. Writing for Theatre
Cr. 3. A continuation of work in acting theory and technique through scene study and monologues beginning with American realism and moving to Chekhov, ethnic drama, and poetic drama. Prerequisite: THTR 235. Offered fall semester.

THTR 431. Play Directing
2+2, Cr. 3. A study of the art of directing, the problems of choosing a play, methods of casting and rehearsal procedures. Prerequisites: THTR 230, 231, and 235 or consent of the Chair of the Department. Offered in the fall semester.

THTR 433/533. Directing the Young Actor
2+2, Cr. 3. University students work with children in a laboratory context and survey the literature and theory of theatre for children. Prerequisites: THTR 431 or consent of the Chair of the Department. Offered in summer session only.

THTR 335. Acting II
2+2, Cr. 3. A continuation of work in acting theory and technique through scene study and monologues beginning with American realism and moving to Chekhov, ethnic drama, and poetic drama. Prerequisite: THTR 235. Offered fall semester.

THTR 381. Cooperative Education in Theatre
Cr. 1-3. Individual work experience with a cooperating employer. Written report required. Prerequisite: approval of the Chair of the Department.

THTR 386. Internship
Cr. 1-3. Internships in which students may intensively study a particular area of theatre, television, or dance. May not be repeated for credit. Prerequisite: consent of the Chair of the Department.

THTR 399. Colloquium
Cr. 0. A required course for theatre majors which provides weekly opportunities to examine a variety of theatre and theatre-related vocations. Offered each semester.
Theology

Professors Albers, Grundmann, Larre, Meilaender, J. Moore, Liedner, Truempel (Chair), Wangerin; associate Professors R. DeMaris, van Joorn-Harder; Assistant Professors F. Bartusch, L. Driver, Megill-Obbler; Lecturers Leeb, Weber.

The Theology Department of Valparaiso University has as its main purpose the study, assimilation, and interpretation of the historical tradition as a part of and in relation to the wider religious heritage of humankind. It is the goal of the department to enable all graduates of Valparaiso University to be knowledgeable of the Christian faith, sensitive to religious issues in our global society, and prepared for roles in which their understanding of religion may enhance their contribution to church and society. Since this is a theology department within a university, our work is founded upon the bural tradition of inquiry; competing views meet and are freely debated in the search for truth. Theology Department lays an essential part in expressing and defining the University’s commitment to the Christian tradition, particularly to the Lutheran perspective. The department seeks to assist students in becoming more aware of their own religious traditions, more critical and firming in their appropriation of them, and more respectful of other traditions.

General Education. The Theology component of the General Education requirement at Valparaiso University is the freshman core course and two courses of three credit hours each. These courses shall ordinarily be taken from each of the two lists indicated in the course listings below.

- Foundational Course is ordinarily taken in the sophomore year. In either the junior or senior year, each student must take at least one course from the Upper Level listings.
- Major. A minimum of 27 credit hours in theology in addition to the freshman core constitutes a major. Courses must include a course in biblical studies (210, 310-319), a course in the history of the Church and its thought (225, 320-326, 330-334), a course in contemporary Christian religion and ethics (240, 334, 337, 338, 340-346, 353 [when topic appropriate]), a course in history of religions (260, 360-368), and seminar 493. Students shall also take four additional courses chosen in consultation with their departmental major advisor. Majors must take at least two courses (6 credits) in addition to 493 that are designated in the Schedule of Classes as courses primarily intended for theology majors (not fulfilling this stipulation are 451, 453, 480, 493).

Minor. A minimum of 15 credit hours in theology in addition to the freshman core, chosen by the student in consultation with the Chair of the Department or the Chair’s designated representative, constitutes a minor. At least three courses shall be taken at the Upper Level (300-400 courses).

Programs. The Department provides programs of study and advising for students who wish to prepare for professional careers in the Church:

1. Programs of study in preparation for theologies. Prerequisite for these courses is the freshman core program or course on the role of the prophets in Israelite religion. Special attention is given to the historical origins of the prophetic movement, its impact on Israel's political, social and religious life, and the continuing significance of the prophetic message in Jewish and Christian thought.

2. An investigation of the history of the Christian Church leads to the development of the church and its structures of thinking about its life.

3. A study of norms for religious action in the church.

4. A study of the history and thought from the Reformation period through the period.


6. An investigation of the history of the church today and work of the church today.

7. A study of the New Testament church in its social, political, and religious environment that will focus on class, gender, race, and other key issues: Jewish-Gentile relations; anti-Semitism; slave and master; wealth and poverty; the status and authority of women.


Foundations of Christianity

- THEO 320/520. Topics in Christian History.
  Cr. 3. A study of a specific topic such as representative Christian thinkers, comparative Christianity, Calvin and Calvinism, Lutherans in America, and Catholics in America. May be repeated for credit if topics are different.

- THEO 322. Early and Medieval Christianity.
  Cr. 3. A study of major events and developments in Christian thought from the apostolic age through the medieval period.

- THEO 323. Christianity from the Reformation to the Present.
  Cr. 3. A study of major developments in Christian history and thought from the Reformation period to the present.

- THEO 324/524. Christianity in America.
  Cr. 3. An investigation of the history of Christianity in America, with special emphasis on the interaction between religion and cultural developments.

- THEO 326/526. History of Women in the Church.
  Cr. 3. An investigation from biblical times to the present of theological understandings of women’s roles in Christian religious communities and of the cultural contexts that shape such attitudes and practices.

Theology, Ethics, and Practice

- THEO 330/530. Topics in Contemporary Theology.
  Cr. 3. A study of selected topics, such as contemporary Lutheran theology, feminist theology, and liberation theology. May be repeated for credit if topics are different.

- THEO 332/532. Luther and Lutheran Confessional Theology.
  Cr. 3. Issues are studied against the background of the sixteenth century and with a view to ascertaining the value of the Confessions for the life and work of the church today.

  Cr. 3. A study in the making and critiquing of an ordered and coherent structure of thought about the Christian faith, with special reference to the resources of biblical and Lutheran theology.
Theology

EO 337. Black Theology and Black Church. Cr. 3. A study of Black theological discourse in the United States and Africa. The course focuses on the composite causes of racial oppression and explores the relationship between black theology and "third world" peoples, women's struggles, black families, and, most importantly, the praxis of black church ministry. May be used to fulfill the U.S. Diversity component of the General Education Requirements.

EO 338. Holocaust/Theology. Cr. 3. A systematic study of the many issues stemming from the events of the Nazi Holocaust and how those events have affected both Jews and Christians. The course constructs a possible religious and moral response to the evil of the Holocaust.

EO 340. Topics in Religious Ethics. Cr. 3. An examination of a selected thinker or theme in religious ethics. May be repeated for credit if topics are different.

EO 341. Introduction to Biomedical Ethics. Cr. 3. (Also offered as PHIL 341.) A study of the moral issues raised by modern advances in medicine and biological research (e.g., abortion, euthanasia, genetic engineering and health care). Attention is given both to general ethical theory and to the analysis of particular issues.

EO 342. Theology of Marriage and Sexuality. Cr. 3. A systematic study of the many issues stemming from contemporary views of marriage and sexuality, the course will be an opportunity to judge a variety of possible theological views, test views with concrete experiences and real issues, and begin the process of forming a personal viewpoint.

EO 344. Theology and the Scientific World. Cr. 3. A study of the relationship between religion and science, looking not only at controversial issues but also at the positive dialogue between theologians and scientists. The course will focus on topics like creation and evolution, cosmology and theology, genetics and human uniqueness.

EO 346/546. Contemporary Moral Issues. Cr. 3. An examination of selected moral issues such as warfare, abortion, and care of the environment.

EO 351. Studies in Theology and the Arts. Cr. 3. An examination of a selected topic such as Christian faith and modern literature, theology and the visual arts, and religion in cinema. May be repeated for credit if topics are different.

EO 353. Studies in Theology and Practice. Cr. 3. An examination of selected topics such as Christian response to social victims, Christian faith and politics, ethics of cultural encounter, and Christian education. May be repeated for credit if topics are different.

THEO 355/555. Liturgical Theology and Practice. Cr. 3. A study of the principles and language of worship with emphasis on the theology of worship, ritual, the role of tradition, and the relationship between worship and contemporary culture.

THEO 357. The Church in the World. Cr. 3. A study of the life and mission of the church with emphasis on movements for renewal, reform and reunion. Special attention is given to developments in Latin America and/or Africa. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirement.

THEO 358/558. Studies in Theology, Health and Healing. Cr. 3. An examination of a selected topic such as death and dying, or spiritual needs and health care. May be repeated for credit if topics are different.

THEO 359/559. Theology of Aging. Cr. 3. A study of the process of aging from the perspectives of biblical, historical, and practical theology. Attention is given to the spiritual needs of older persons and their potential contribution to church and society.

THEO 481/581. Theology of Diocesan Ministry. Cr. 3. A study of the historical and theological foundations of diocesan ministry. Attention is given to the role of the diocesan in the church, the development of diocesan community, and the nurture of a spirituality of service. Prerequisite: junior or senior standing.

THEO 453/553. Clinical Education for Ministry. Cr. 3. A carefully supervised practicum in ministry to the physically ill and the elderly. Designed principally for senior Deaconess and Pre-Seminary students, this course in practical theology engages students in disciplined reflection on their ministry. Usually S/U basis. Prerequisite: junior or senior standing.

HISTORY OF RELIGIONS

THEO 360/560. Topics in the History of Religions. Cr. 3. A study of a selected topics, such as families of Abraham, South Asian religions, Latin American religions, religions of pre-Christian Europe, and history of the study of religion. May be repeated for credit if topics are different.

THEO 361. Studies in Judaism. Cr. 3. Studies of selected topics in Judaism: biblical, rabbinic and contemporary. May be repeated for credit if topics are different. These offerings are sometimes sponsored in part by the Jewish Chautauqua Society.

THEO 362. Understanding Islamic Religion and Culture. Cr. 3. A study of the life of Muhammad, the teachings of the Quran, traditional practices and institutions in Islamic society, and significant contemporary developments in the Muslim world.

THEO 363. Religions of China and Japan. Cr. 3. A study of the religious worldview of China and Japan, focusing on the traditional popular religious practices and in the organized religions of Confucianism, Taoism, Buddhism and Shinto. Special attention is given to the expressions of religion in art and to the role of religion in modern China and Japan. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

THEO 364. The Buddhist Tradition. Cr. 3. A study of the origins of Buddhism in India, its expansion into and influence on the cultures of Southeast Asia, its special adaptations in China and Japan, and the Buddhist presence in the United States today. Attention is given to the varieties of Buddhist teaching and practice. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

THEO 365. Religion in Africa. Cr. 3. A study of religion in Sub-Saharan Africa. Attention is given to the nature and function of religion in the traditional societies and to the modern developments of Christianity and Islam in Africa. May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

THEO 366. Religion in Japanese Culture. Cr. 3. A study of religion in Japanese culture by focusing on Zen Buddhism and its influence in Japanese culture, especially in traditional arts like poetry, transpainting, calligraphy, architecture, flowers, and gardening, with special emphasis on chanoyu (the tea ceremony). May be used to fulfill the Global Cultures and Perspectives component of the General Education Requirements.

THEO 367/567. Religion in America. Cr. 3. An examination of a selected topics, such as recent religious movements in America, history of religions in the United States, etc. May be repeated for credit if topics are different.

THEO 368. Native American Religions. Cr. 3. A study of the most common religious features found in Native American societies north of Mexico. Attention is given both to the older traditions and to the more recent religious developments. May be used to fulfill the U.S. Diversity component of the General Education Requirements.

THEO 369. Church Vocations Symposium. Cr. 0. Presentations and discussions of topics of special interest to students in pre-seminary studies or who are preparing for other church vocations. All students in these curricula are expected to register for this course each semester and to attend each session. S/U grade.

THEO 480. Practicum in Ministry. Cr. 1-3. Field experience in various local agencies, together with reflection on the work being done. This course may not be used to fulfill the Theology component of the General Education Requirement. A maximum of three credit hours may be applied to the theology major. It may be repeated for a maximum of six credits, and is offered only on an S/U basis. Arranged with the Chair of the Department. Prerequisite: junior or senior standing.

THEO 481. Basic Homily Preparation. Cr. 1. A basic introduction to methods of preparing and delivering biblical, liturgical homilies in a variety of worship settings. This course may not be counted toward the theology major or minor. It may be repeated for a maximum of two credits, and is offered on an S/U basis. Prerequisite: junior or senior standing.

THEO 490/590. Topics in Theology. Cr. 1-3. A study of a selected topic in theology, intended primarily for majors, minors, and advanced students. May be repeated for credit if topics are different.

THEO 493. Theology Seminar. Cr. 3. Advanced study of selected areas or issues in the discipline of theology. Varied listings are announced. Prerequisites: senior standing and consent of the Chair of the Department.

THEO 495. Supervised Reading and Research. Cr. 1-3. An opportunity for students to read a number of significant works on a given topic in theology, or to do research on a topic which is not covered in any scheduled course offerings of the Department and to write a major paper. Prerequisites: junior standing, 9 credit hours in theology, and consent of the Chair of the Department.


SPECIALIZED COURSES
A complementary (second) major in Youth, Family, and Christian Education will be completed, with nine courses chosen, in consultation with the Program Director of the Center for Church Vocations, from among the following:

**Education**
- ED 204 Educational Psychology ........................................ 3Cr.

**Psychology**
- PSY 265 Human Behavior in Organizations .......................... 3Cr.
- PSY 330 Child and Adolescent Development .......................... 3Cr.
- PSY 335 Psychology of Personality ..................................... 3Cr.
- PSY 355 Environmental Psychology .................................... 3Cr.
- PSY 360 The Exceptional Child ......................................... 3Cr.
- PSY 445 Community and Health Psychology .......................... 3Cr.
- PSY 461 Introduction to Counseling ................................. 3Cr.

Note: PSY 110 or 110/111 is a prerequisite for all Psychology courses, but may not be counted among the courses for this complementary major.

**Sociology**
- SOC 220 The Family ....................................................... 3Cr.
- SOC 245 Social Psychology .............................................. 3Cr.
- SOC 250 Principles of Social Organization ........................... 3Cr.
- SOC 325 Urban Sociology ................................................ 3Cr.
- SOC 327 Aging in American Society .................................... 3Cr.
- SOC 340 Gender .............................................................. 3Cr.
- SOC 347 Race and Ethnic Relations .................................... 3Cr.

SOC 110 is prerequisite for all sociology courses, but may not be counted among the courses for this complementary major.

**Symposium and Para-Curricular Activities.** Working in consultation with the academic adviser and Program Director of the Center for Church Vocations, students will arrange each semester to participate in the Church Vocations Symposium (THEO 399), as well as in the Center for Church Vocation's program of formation for ministry, including retreats, a mentoring program, and/ or a specially-arranged internship or Practicum in Ministry (THEO 480). A year-long full-time internship may also be arranged through the Program Director of the Center for Church Vocations, in a parish or church-related service agency; such an internship would usually be scheduled between the student's junior and senior years.

**Candidacy and Rostering.** Students should consult their Center for Church Vocations adviser as early as possible in their program of study in order to begin the process of candidacy and discernment of vocation with the appropriate church body office.

CHRIST COLLEGE

The Honors College

Professors Bunge, Olmsted, Piehl, Schwehn; Associate Professor Morgan; Assistant Professors Hoffman, Huelin, Murphy.

Completion of a program of study in Christ College leads to graduation with the honors designation Christ College Associate or Christ College Scholar. A student may also earn a complementary major or an academic minor in Christ College humanities coursework. Requirements for these programs are described in detail on pages 183-184.

Christ College takes its name from respected colleges established centuries ago. In the tradition of those colleges, Christ College is dedicated to the cultivation of intellectual, moral, and spiritual virtues. The College's name also suggests its compatibility with Valparaiso University's definition of itself as a university in the Christian intellectual tradition. Christ College endeavors to develop among its members a sense of community: a community of seekers of knowledge and truth, a community within which free inquiry is encouraged and principled commitment is fostered, a community of scholars engaged in preparing themselves for active participation in the larger human community. Much of the...
curricular structure of Christ College and many of its co-curricular activities are devoted to developing this sense of community.

Its attractive facilities also encourage community-building. Christ College is located in Mueller Hall, a modern building in the heart of campus where students and faculty interact in its classrooms, a 60-seat multimedia lecture hall, a comfortable lounge/art gallery, a multipurpose refectory, and faculty offices.

By developing an academic community that gathers outside as well as inside the classroom, Christ College promotes a particular set of educational virtues and ideals among its members. Among these are direct and personal relationships between students and faculty, a spirit of cooperation and mutual growth through free exchange of ideas, a willingness to challenge and scrutinize ideas and beliefs (including one’s own), and a concern for the integration of academic learning into a responsible and meaningful life.

While stressing intellectual excellence and the fullest use of one’s own mental gifts, the College also attempts to develop within its members the virtues of modesty and civility, a humble awareness of limitations and failures, and a sense that the more knowledge is gained, the more it is to be used wisely in the service of others. To the extent that these values are actually realized in its members, Christ College considers them prepared for responsible vocations in society and for leadership in the Christian community.

ADMISSION AND MEMBERSHIP IN CHRIST COLLEGE

Freshman Admission. To be considered for membership in Christ College beginning in the freshman year, students must first be admitted to Valparaiso University. Admitted students with superior academic records, strong SAT or ACT scores, proven leadership in extracurricular activities, and a measure of curiosity and creativity are invited by the Dean of Christ College to apply for the honors program. Between 75 and 85 freshmen are accepted into the Christ College Freshman Program each fall.

The Christ College Freshman Program (CC 110: Texts and Contexts I and CC 115: Texts and Contexts II) includes a two semester course in the great traditions of humankind with readings in history, literature, philosophy, and religion from the earliest recorded thought to the present day. Coursework emphasizes close reading, thoughtful discussion, and critical writing. Special Freshman Program activities include drama, music, and debate.

Upperclass Admission. Students with superior records of academic achievement may be invited to join Christ College later than the start of the freshman year at the Dean’s discretion. Finally, some sophomores are invited to Christ College each fall. These students enroll in sophomore level Christ College courses and begin the pursuit of Christ College Associate and Christ College Scholar graduation distinctions.

Still other students enroll in one or more courses offered by the College, but do not pursue honors program designations. Such enrollment is subject to the approval of the Dean and limited only by class size.

Any Valparaiso University student—whether or not he or she is a member of Christ College—may pursue a complementary major or a minor in humanities through Christ College coursework.

Membership in Christ College. A student formally admitted to Christ College, either as a freshman or upperclass student, in order to pursue a Scholar or Associate distinction, is designated a member of Christ College. Once admitted to membership, a student’s status is regularly reviewed by the Dean and faculty to determine whether the student is satisfying the standards appropriate to membership in the College. These requirements include contribution to the common life of the College, satisfactory academic progress toward a degree in one of the undergraduate colleges, and continuing academic achievement consonant with the mission and standards of Christ College.

Even when students are not directly registered in Christ College courses during a given semester, they are expected to contribute to the College’s common life. This includes attendance at the Christ College Symposium and regular consultation with a Christ College adviser.

Continuing academic achievement at the honors level includes a) a cumulative grade point average of 3.30 at Christ College, b) a cumulative grade point average of 3.30 in all coursework completed in Christ College. Students who fall below these standards at the end of a semester or academic year will be notified by the Dean and reminded that Christ College Associate and Scholar distinctions require a 3.30 cumulative average for work in both Christ College and Valparaiso University.

In some cases students will be asked to meet with their adviser and/or the Dean to discuss their status, and may be counseled not to continue in Christ College.

However, membership in Christ College is never terminated by the mechanical application of particular criteria such as cumulative grade point average or the student’s academic record for a particular semester or year. The Dean and faculty consider the circumstances and direction of each student’s total academic career, and retain the right to maintain a student’s membership in Christ College in light of these conditions. The final approval for the student to graduate with the designations of Christ College Associate and Christ College Scholar is made by the faculty.

The Dean and faculty take an interest in the total program of every member of Christ College, and seek to enhance the quality of educational experience for each individual student. Accordingly, the Dean may authorize certain variations in the normal academic requirements of a student if such variations seem desirable in the best interests of the student. For example, the Dean may permit a student to carry extra credit hours and to waive certain University requirements if such waivers are justified.

Members of the College are normally expected to meet all University requirements for graduation except where such modifications have been explicitly authorized by the Dean. In general, the faculty may tailor a program to meet a student’s interests and needs within the general framework and spirit of the University’s requirements.

ACADEMIC ADVISING AND APPROVAL OF COURSE SCHEDULES

Advising of students pursuing programs in Christ College is under the general direction of the Associate Dean. Christ College freshmen are usually advised by a member of the Christ College faculty. Sophomores, juniors, and seniors are advised by the Associate Dean, with faculty members available to consult at any time.

Students are encouraged to confer regularly with their Christ College advisers to select courses, to meet University and College graduation requirements, to assure orderly progress in their chosen programs, and to assist in career planning and related matters.

In addition to a Christ College adviser, students have an adviser in the other college in which they are simultaneously enrolled, and are expected to confer regularly with that adviser as well.

It is each student’s responsibility to know curriculum requirements, academic policies, deadlines for academic actions, and Christ College membership criteria.

PROGRAMS OF STUDY

Completion of the degree requirements of the college in which the Christ College student is concurrently enrolled leads to the bachelor’s degree appropriate to that college. In addition, a member of Christ College, by meeting the appropriate requirements, may graduate as a Christ College Scholar or Christ College Associate. The transcript carries the notation along with an explanation of its meaning.

Christ College students as well as students who are not members of Christ College may pursue a complementary major in humanities or a minor in humanities through the College.

Christ College Scholar. The requirements for this designation are:

1. Membership in Christ College for a minimum of three semesters.
2. A cumulative grade point average of 3.30 in all coursework completed at the University and in all coursework completed in Christ College for the Scholar designation.
3. A minimum of 22 credit hours beyond the Christ College Freshman Program courses CC 110 and CC 115. A student who enters the College after the freshman year and who has not taken CC 110 and CC 115 is required to take one additional 3 credit seminar (CC300 or CC325). Students may not choose the S/U grading option for coursework beyond CC 110 in any course used to fulfill the requirements for Scholar designation.

Required coursework includes:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CC 110</td>
<td>Texts and Contexts I</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>CC 115</td>
<td>Texts and Contexts II</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>CC 205</td>
<td>Word and Image</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>CC 218</td>
<td>The Christian Tradition</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>CC 325</td>
<td>Seminar</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>CC 499</td>
<td>Senior Colloquium</td>
<td>1 Cr.</td>
</tr>
</tbody>
</table>

One course selected from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC 250</td>
<td>Interpretation in the Humanities</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>CC 260</td>
<td>Interpretation in the Social Sciences</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>CC 270</td>
<td>Exploration in the Natural Sciences</td>
<td>4 Cr.</td>
</tr>
</tbody>
</table>

Two courses selected from:

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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC 300 or CC 325</td>
<td>Seminar</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>CC 455</td>
<td>Inquiry in the Liberal Arts</td>
<td>3 Cr.</td>
</tr>
</tbody>
</table>

An approved off-campus study program.
Christ College

Christ College Associate. The requirements for this designation are:

1. Membership in Christ College for a minimum of three semesters.
2. A cumulative grade point average of 3.30 in all coursework completed at the University in all coursework completed in Christ College for the Associate designation.
3. A minimum of 14 credit hours beyond the Christ College Freshman Program courses CC 110 and CC 115. A student who has not taken CC 110 and CC 115 is required to take one additional 3 credit seminar (CC 300 or CC 325). Students may not choose the S/U grading option for coursework beyond CC 110 in any course used to fulfill the requirements for Associate designation.

Required coursework includes:

- CC 110 Texts and Contexts I 8 Cr.
- CC 116 Texts and Contexts II 8 Cr.
- CC 215 The Christian Tradition 3 Cr.
- CC 499 Senior Colloquium 1 Cr.

One course selected from:
- CC 205 Word and Image 4 Cr.
- CC 260 Interpretation in the Humanities 4 Cr.
- CC 260 Interpretation in the Social Sciences 4 Cr.
- CC 270 Interpretation in the Natural Sciences 4 Cr.

Two courses selected from:
- CC 300 or CC 325 Seminar 3 Cr.
- CC 455 Inquiry in the Liberal Arts 3 Cr.

An approved off-campus study program.

Complementary Major in Humanities. The complementary major in humanities is ordinarily pursued in conjunction with the Christ College Scholar Program of studies, but may be pursued independently from the Scholar requirements. Any student, whether or not a member of Christ College, may earn a complementary major in humanities.

The complementary major in humanities requires a minimum of 23 credit hours in Christ College courses.

Required coursework includes:

- CC 250 Interpretation in the Humanities 4 Cr.
- CC 260 Interpretation in the Social Sciences 4 Cr.

Two courses selected from:
- CC 300 or CC 325 Seminar 3 Cr.
- CC 455 Inquiry in the Liberal Arts 3 Cr.

An approved off-campus study program.

A course used to fulfill the requirements of a complementary major in humanities may not be used to fulfill the requirements of any other major or minor.

Minor in Humanities. The minor in humanities is ordinarily pursued in conjunction with the Christ College Scholar Program of studies, but may be pursued independently from the Scholar requirements. Any student, whether or not a member of Christ College, may earn a minor in humanities.

The minor in humanities requires a minimum of 17 credit hours in Christ College courses.

Required coursework includes:

- One course selected from:
  - CC 260 Interpretation in the Humanities 4 Cr.
  - CC 260 Interpretation in the Social Sciences 4 Cr.

- One course selected from:
  - CC 300 or CC 325 Seminar 3 Cr.
  - CC 455 Inquiry in the Liberal Arts 3 Cr.

An approved off-campus study program.

Course Offerings

The Freshman Program

CC 110. Texts and Contexts I: Traditions of Human Thought. Cr. 8. Intensive study of great works in religious, philosophical, and literary traditions. The course is graded S/U only, although advisory grades (A-F) are assigned throughout the semester. Prerequisite: membership in Christ College or consent of the Dean.

CC 115. Texts and Contexts II: Traditions of Human Thought. Cr. 8. The first seven weeks of this course continues CC 110. In the second seven weeks students choose from seminars on topics relevant to the larger themes of the course. Each student conducts a major investigation of a problem formulated within the seminar. The course is graded A-F only. Prerequisite: membership in Christ College or consent of the Dean.

Sophomore-Junior-Senior Curriculum

CC 201. Christ College Symposium. Cr. 0. Presentations and discussions of items and topics of special interest to members of the Christ College community. Christ College sophomores, juniors, and seniors are expected to attend the course and register for the course. Prerequisite: consent of the Dean.

CC 205. Word and Image. Cr. 4. A study of selected texts, literary, philosophical, and religious texts, with special emphasis on the relationship of these to works of art. The course is graded S/U only, although advisory grades (A-F) are assigned throughout the semester. Prerequisites: CC 115 or CORE 115 and membership in Christ College or consent of the Dean.

CC 215. The Christian Tradition: Doubt, Belief and Disbelief. Cr. 3. A study of one or more major topics in the history of Christian thought, with attention to the ways these topics have been addressed by the Scriptures, classics in theological discourse, and other significant writings. Prerequisites: CC 115 or CORE 115 and membership in Christ College or consent of the Dean.

CC 250. Interpretation in the Humanities. Cr. 4. An introductory study of interpretation through the examination of selected primary materials in the humanities. Prerequisites: CC 115 or CORE 115 and membership in Christ College or consent of the Dean.

CC 260. Interpretation in the Social Sciences. Cr. 4. An introductory study of interpretation in the social sciences designed to improve the ability to understand the men and women who inhabit or who have inhabited the world of human action. The course provides an introduction to some basic interpretive problems in several areas, including, for example, psychology, social theory, anthropology, and history. Prerequisites: CC 115 or CORE 115 and membership in Christ College or consent of the Dean.

CC 270. Interpretation in the Natural Sciences. Cr. 4. A survey of methodology and the philosophical underpinnings of the natural sciences to achieve better understandings of the scientific enterprise. Scientific projects and oral presentations complement readings, lectures, and discussions. Prerequisite: CC 115 or CORE 115 and membership in Christ College or consent of the Dean.

CC 300. Seminar. Cr. 3. Each semester Christ College offers seminars dealing with themes of social, intellectual, cultural, spiritual, or artistic importance. These courses are often interdisciplinary in nature. Seminars may be cross-listed with academic departments in other colleges of the University. A course used to fulfill the requirements for Associate designation is required.

- CC 325 Seminar. Cr. 3. Same as CC 300, except the course may be intensified to 4 credits with the consent of the instructor. A student who takes the course for 4 credits will prepare an honors thesis on some aspect of the seminar topic in place of one of the regularly assigned papers and the final examination. As a general rule only students with junior or senior standing will be permitted to intensify this course. Prerequisite: membership in Christ College or consent of the Dean.

CC 455. Inquiry in the Liberal Arts. Cr. 3. A course in the theory and practice of the liberal arts. Students in this course collaborate with instructors as tutorial assistants in CC 110. Prerequisites: CC 110 or CC 115, membership in Christ College, and consent of the Dean.

CC 495. Independent Study Project. Cr. 1-4. A special independent study project arranged with a member of the faculty. Approval of this project must be obtained from the faculty prior to registration. Forms for this project are available from the Dean's Office. Prerequisite: membership in Christ College and consent of the Dean.

CC 499. Senior Colloquium. Cr. 1. A capstone, integrative experience for seniors under the direction of Christ College faculty in which students give shape to the substance of their lives through autobiographical narrative, and reflect upon the character and meaning of their future work. Prerequisite: senior standing, membership in Christ College, and consent of the Dean.
Our faculty is engaged in scholarly activities with a focus on intellectual contributions related to the application of knowledge and instructional development. We value the importance of ethics, integrity, and honesty.

We value the Lutheran heritage of the University.

We recognize the importance of giving to the community and stress enhanced social responsibility among faculty and students by encouraging community and professional service.

The general education curriculum exposes each student to a broad range of disciplines, problem solving techniques and methods of inquiry. The business curriculum introduces students to concepts, tools of analysis, and techniques of evaluation which further develop skills in problem solving and decision making. These serve as a foundation for their growth into competent and ethically responsible business persons prepared for work in the global environment. The undergraduate education in business is concerned not only with preparation for business careers but with preparation for life in general. As the shared values indicate "We view students as whole persons and strive to prepare them for personal, as well as professional success."

The Major Field. The business core provides background in the production and marketing of goods and/or services and the financing of the business enterprise; it builds on the knowledge gained in the general education component. The student becomes familiar with accounting and quantitative methods that have application to the solution of business problems. Attention is given to ethical and social issues that confront modern business organizations within an integrative, capstone, policy-determination course. In addition to taking certain prescribed courses in the core, the student must complete the requirements for the degree in accounting or the major in international business, management, or marketing for the degree in business administration. The requirements for each major are set forth in the curricula described on pages 190-192. Each of the two degrees requires that the students devote at least one-half of their time to required and elective courses outside the College of Business Administration. Students often select nonbusiness elective courses in those areas which provide support to their professional program.

Minor in Business Administration. The College offers this minor for nonbusiness students who desire a more advanced preparation in business than is provided by the Liberal Arts Business Minor. For more information and the requirements of these two minors, see page 226 for the Minor in Business Administration and page 229 for the Liberal Arts Business Minor.

Credit by Examination. Credit for ACC 205 may be earned through the College Level Examination Program subject examination in Introductory Accounting.

For nonbusiness majors only, credit for MGT 304 may be earned through the College Level Examination Program subject examination in Principles of Management. For nonbusiness majors only, credit for MKT 304 may be earned through the College Level Examination Program subject examination in Principles of Marketing.

Minors for Business Students. In addition to minors in programs outside the College of Business Administration, business students may complete the requirements for an interdisciplinary minor either in International Business and Global Studies (available to business students only, see page 192), or in Manufacturing Management. (see page 230), or in Applied Statistics (see page 225).

A business student may declare a minor in the College of Arts and Sciences. No more than two courses of specified nonbusiness courses required for a College of Business Administration degree may be used in fulfilling the requirements of a minor except for interdisciplinary minors, the minor in mathematics and the minor in computer science where three courses may be used to simultaneously satisfy the requirements of the major and the minor. Students must earn a 2.00 grade point average in a minor for it to be noted on the student's official academic record.

Honors College. The College of Business Administration encourages those students who are qualified to participate in the Christ College Honors program. Business students enrolled in Christ College also have an adviser in Christ College. A College of Business Administration student in Christ College may graduate either as a Christ
College Scholar or as a Christ College Associate (see pages 183-184).

**Double Major in the College of Business Administration.** Students may earn a double major by completing all the requirements for two majors. No course used to fulfill the requirements for one major (including major field courses) may be used to fulfill requirements for a second major, unless the course is required for both majors or the course fulfills the international business requirement for each major. There cannot, however, be any more than a seven credit overlap between the two majors.

**Double Degree.** Students may earn double degrees by earning 30 credits and 60 quality points in excess of the total number of semester credits required for the first degree and, in addition, must fulfill all the specific course requirements for the second degree. None of the additional 30 credits for the second degree may be used to fulfill requirements for the first degree.

**Assessment Center.** The CBA Assessment Center evaluates student performance on realistic business tasks. Assessors observe students in simulations such as role plays, oral presentations and group decision making, and offer immediate feedback to the students. Skills assessed might focus on the student’s problem solving, communication, leadership, teamwork, and interpersonal abilities. The student may use their assessment results to evaluate their strengths and to identify areas for improvement. The College may use the assessment results to evaluate and improve its curriculum. The increased importance of behavioral skills in the workplace emphasizes the necessity of being able to assess these skills in our students. The College of Business Administration offers the Assessment Center each academic year and requires all students to participate in the Assessment Center activities during each of their Sophomore and Junior years.

**Cooperative Education.** Cooperative Education in the College of Business Administration is a program in which students combine full-time professional, paid work experience with academic coursework. Employment may occur in a business, not-for-profit, or government setting. Each student is required to complete a Cooperative Education (or Internship; see following section) experience during their junior or senior year. The following policies govern Cooperative Education within the College of Business Administration:

1. A student may participate in Cooperative Education after achieving junior standing with a minimum cumulative grade point average of 2.00.
2. A student works under the advisement of the CBA’s Internship and Assessment Center Coordinator, in consultation with a faculty member (usually the student’s faculty adviser), who monitors the work experience, evaluates the required written journal and oral presentation, and assigns the course grade taking into account the employer’s evaluation of the co-op student.
3. Placements require prior approval of both the CBA Internship and Assessment Center Coordinator and the Director of the Career Center. Interested students should meet with the Coordinator early in their academic careers.
4. A student registers for two credits for each co-op experience.
5. Retroactive credit will not be granted.

**Internships.** Internships enable students to apply concepts and skills learned in their business courses to situations encountered in actual organizational settings. Each student is required to complete an Internship for Cooperative Education; see previous section) experience during their junior or senior year. The following policies govern Internships within the College of Business Administration:

1. A student may participate in Internships after achieving junior standing with a minimum cumulative grade point average of 2.00.
2. A student works under the advisement of the CBA’s Internship and Assessment Center Coordinator, in consultation with a faculty member (usually the student’s faculty adviser), who monitors the work experience, evaluates the required written journal and oral presentation, and assigns the course grade taking into account the employer’s evaluation of the intern student.
3. Placements require the prior approval of the CBA Internship and Assessment Center Coordinator. Students should meet with the Coordinator early in their academic careers.

4. Internships may be paid or unpaid work experiences.
5. A minimum of 100 hours of work experience during each internship placement is required to receive academic credit for the internship. A student registers for a total of two credits for each internship placement.
6. Retroactive credit will not be granted.
7. MGT 395 must be completed within four terms (including summer terms) of completion of MGT 394.
8. MGT 396 must be completed no later than the term following completion of MGT 395.

**Admission.** The general requirements for admission to the University and to the College are found on pages 242-243 of this catalog.

**Transfers.** Students currently enrolled at Valparaiso University and wishing to transfer into the College of Business Administration, as well as those from other universities who wish to enter, must have a minimum cumulative grade point average of 2.00. Transfer students should refer to page 247 regarding theology requirements and to page 11 for the First Year Core requirement.

Transfer students who have completed business courses do not automatically receive transfer credit. Evaluation of such credit is made by the Dean. Any course work (usually introductory level) from universities with a grade lower than C does not transfer. At least fifty percent of the business credit hours required for the business degree must be taken at Valparaiso University.

**Progression Standards.** The College of Business Administration requires each student to maintain a minimum university cumulative grade point average of 2.00, a minimum business cumulative grade point average of 2.00, and a minimum major cumulative grade point average of 2.00. Courses to be included in the business grade point average are those identified with the prefix ACC, BLAW, FIN, IDS, MGT, or MKT. Courses to be included in the major grade point average are those specifically identified under the Major.

1. A student shall receive a Letter of Academic Deficiency at the end of the first semester in which he or she has a grade point average of less than 2.00 in either overall cumulative, business cumulative, or major cumulative.

2. A student shall be placed on College probation if he or she had a grade point average of less than 2.00 in either overall cumulative, business cumulative or major cumulative and the student has received a Letter of Academic Deficiency within the last two regular semesters.

3. A student shall be suspended from the College for at least one semester if he or she has a grade point average of less than 2.00 in overall cumulative, business cumulative, or major cumulative and the student has been placed on probation within the last two regular semesters.

4. A suspended student will not be allowed to enroll in courses within the College except repeated courses to raise the business and/or major grade point average(s), provided he or she meets the course prerequisites. A suspended student must wait a minimum of one semester to apply for readmission to the College of Business Administration. In order to be readmitted to the College after suspension, the student must have a minimum University cumulative grade point average of 2.00, a minimum business cumulative grade point average of 2.00, and a minimum major cumulative grade point average of 2.00. A suspended student who is readmitted to the College of Business Administration may apply for admission to another college within the University. A copy of all deficiency, probation, and suspension letters shall be placed in the student’s folder and a copy given to his or her adviser.

**Graduation Requirements.** To be eligible for the Bachelor of Science in Accounting degree or Business Administration degree, a student must complete one of the prescribed curricula found on the following pages. The student must also satisfy the grade point requirements stated above and must meet all additional requirements for graduation established by the University (see pages 253-254 in this catalog).

**S/U Grading Option.** Business students may not take business courses using the S/U grade option, unless the course is only graded on the S/U basis. This option is permitted in all nonbusiness courses except MATH 122 and 124, ECON 221, 222, and 223,
PSY 110 and 111, and any nonbusiness course used in the International Business and Global Studies, Manufacturing Management, or Applied Statistics minors. See page 249 for a complete explanation of the SU grading option.

Advisement. Advisement of students admitted to the College is under the direction of the Coordinator of Advising, who assists freshmen and sophomores in selecting courses and interpreting the requirements for an orderly progression toward a degree. In addition, faculty members assist business students for both course selection and advisement. It is each student's responsibility to know curriculum requirements, prerequisites for courses, academic policies and procedures, and deadline dates.

STUDENT ORGANIZATIONS

Students are encouraged to join one or more of the following College of Business Administration organizations.

Kappa Phi Chapter of Delta Sigma Pi. This selective professional business fraternity of men and women worldwide has been organized to foster the study of business in universities, encourage scholarship and social activity, and to promote greater affiliation between the commercial world and students of business.

Accounting Honor Society. The society's objectives are to promote professional excellence in the field of accounting, to inform and educate members about career options, to provide opportunities for association between members of the society and practicing accountants, and to encourage the development of ethical, social, and public responsibility. Membership in the society is open to all students interested in pursuing careers in accounting.

HONOR SOCIETIES

Beta Gamma Sigma. National honor society which recognizes outstanding academic achievements of students in AACSB accredited business programs. The upper 10 percent of the senior class and the upper seven percent of the junior class are invited into its membership. Members are entitled to wear blue and gold honor cords at commencement.

Accounting Honor Society. Recognizes members of the Accounting Society who have excelled in the study of accounting.

Decision Sciences and Information Systems Honor Society—Alpha Iota Delta. Sponsored by the Decision Science Institute to recognize academic excellence in the field of decision sciences and information systems.

COURSES COMMON TO BOTH DEGREE PROGRAMS IN THE COLLEGE OF BUSINESS ADMINISTRATION

The College of Business Administration offers two undergraduate degrees—the Bachelor of Science in Accounting and the Bachelor of Science in Business Administration. In addition, the College also offers the Masters in Business Administration graduate degree; the MBA program is described in the Valparaiso University Graduate Catalog.

The following courses are common requirements for the two undergraduate degrees—the B.S. in Accounting and the B.S. in Business Administration. Courses specifically required for each of these two undergraduate degree programs are listed under the respective degree descriptions following the General Education and Business Core requirements.

GENERAL EDUCATION

Freshman Core Program
CORE 110 The Human Experience 5 Cr.
CORE 115 The Human Experience 5 Cr.
Total 10 Cr.

Academic Area Studies
THEO Foundational Level course 3 Cr.
THEO Upper Level course 3 Cr.
ENGL 200 Literary Studies 3 Cr.
MATH 122 Intuitive Calculus 4 Cr.
MATH 124 Finite Mathematics 4 Cr.
ECON 221 Economics—Micro 3 Cr.
ECON 222 Economics—Macro or ECON 223 Economics—International 3 Cr.
Global Cultures and Perspectives 3 Cr.
Social Analysis (Note II) 3 Cr.
Natural Science (with lab, see Note 6) 4 Cr.
PSY 110 General Psychology 3 Cr.
PSY 111 General Experimental Psychology Lab 1 Cr.
PE 101-105 1 Cr.
Total 48 Cr.

Nonbusiness Elective (Note I) 0-15 Cr.
Total General Education 48-63 Cr.

BUSINESS CORE

Freshman/Sophomore Core Courses
BLAW 104 Legal Environment of Business 3 Cr.
MG 200 Assessment Center 3 Cr.
ACC 205 Financial Accounting 3 Cr.
ACC 206 Managerial Accounting 3 Cr.
IDS 205 Business Statistics 3 Cr.
Total 12 Cr.

Decision Sciences and Information Systems.
opportunity for students to focus on the interdependent global environment in which business is being carried out. The rapid global changes affecting the business world can best be understood through a cross-disciplinary approach involving the study of international business and economics as well as modern languages and selected courses from the liberal arts curriculum. A total of 23 credit hours is required to complete the minor.

Required Core Courses
Complete any three from the following five international business courses. No more than two of these three required courses can be used to fulfill any other requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FIN 430 International Finance</td>
<td>3</td>
</tr>
<tr>
<td>IDS 430 Global Operations and Supply-Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 440 Cross-Cultural Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 471 International Business Environment and Global Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MGT 430 International Marketing</td>
<td>3</td>
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</tbody>
</table>

Modern Foreign Language Requirement
Two courses in one language sequence are required.

<table>
<thead>
<tr>
<th>Region</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Asian Region</td>
<td>FL 101 and 102 or</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>FLC 101 and 102 or</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>EAST 109 and 110 or</td>
<td>8</td>
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<tr>
<td></td>
<td>European Region</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>FLS 102 and 103 or</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Latin American Region</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>FLS 102 and 103 or</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>General International Track</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>FLS 102 and 103 or</td>
<td>8</td>
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International Elective Tracks
One track is required.

<table>
<thead>
<tr>
<th>Region</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Asian Region</td>
<td>GEO 301: Asian regional course, HIST 240, 341, 342, THEO 303</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>European Region</td>
<td>8</td>
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<tr>
<td></td>
<td>GEO 301: Europe regional course, HIST 313, 315</td>
<td>8</td>
</tr>
<tr>
<td>Latin America Region</td>
<td>GEO 301: Latin America regional course, HIST 232, 331</td>
<td>8</td>
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<tr>
<td></td>
<td>General International Track</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>GEO 301: Latin America regional course, HIST 232, 331</td>
<td>8</td>
</tr>
</tbody>
</table>

International Study Abroad Track
Six credits of area studies approved by the Administrative Committee.

ACCT 205. Financial Accounting.
Cr. 3. A study of basic accounting theory and practice, the nature of assets and equity, income measurement, and financial statement preparation. Prerequisites: MATH 110 or placement higher than MATH 110 on the math placement examination, and sophomore standing or permission of the area coordinator for accounting majors.

ACCT 206. Managerial Accounting.
Cr. 3. A study of the analysis and use of accounting data to manage enterprises. Topics include cost-volume-profit relationships, decision analysis, budgeting, standard costing, segment reporting, and product costing methods. Prerequisite: ACCT 205.

ACCT 210. Introductory Accounting Lab.
Cr. 1. Computer-aided instruction of the procedural accounting skills required for professional accountants. Prerequisite: ACCT 205 or permission of the instructor. Sr/Gr.

ACCT 290/390/490. Topics in Accounting.
Cr. 1-3. A detailed examination of selected topics pertinent to the field of accounting to be offered when sufficient interest and staffing are available. Prerequisites will vary, depending on topics being covered.

ACCT 301. Seminar in the Accounting Profession I.
Cr. 0.5. Exploration of important professional accounting issues that are not covered in traditional accounting courses. The course relies on case studies, presentations and discussions conducted by practicing professional accountants as well as various faculty members. Prerequisite: ACCT 205. Sr/Gr.

ACCT 302. Seminar in the Accounting Profession II.
Cr. 0.5. Continuation of ACC 301. Prerequisite: ACC 301. Sr/Gr.

Cr. 3. A study of the theoretical foundations underlying financial reporting, revenue recognition, the matching of expenses, and financial statement presentation, with a focus on asset measurement and income determination. Prerequisites: BLAW 104, ECON 221, ECON 222 or 223, IDS 208, ACCT 206, and completion or concurrent enrollment in ACC 210, IDS 110, and FIN 304.

ACCT 311. Intermediate Financial Accounting II.
Cr. 3. A study of the theoretical foundations underlying financial reporting, revenue...
ACC 495. Independent Study in Accounting.
Cr. 1-3. An independent research effort. It requires approval of a research proposal by a member of the College faculty and the Dean. May not be used as a substitute for a course for which the student has substantial credit. Prerequisite: completion of or concurrent enrollment in ACC 205 and IDS 110.

BUSINESS LAW
BLAW 104. Legal Environment of Business.
Cr. 3. A study of the legal and regulatory climate that has a major impact on the operation of business entities. Attention is directed not only to legal but also to ethical issues confronting the manager in today's global economy. Prerequisite: completion of 12 credit hours.

Cr. 3. A study of various areas of the law that affect the commercial community. The scope of this course includes the law of contracts, sales, agency, business associations, and issues related to corporate social responsibility. Prerequisites: junior standing and BLAW 104.

FINANCE
FIN 282. Personal Finance.
Cr. 3. An overview of personal and family financial management with an emphasis on budgets, tax management, credit management, investment selection, insurance selection, retirement planning and estate planning. Business majors may take this course only as a free elective. Prerequisite: sophmore standing.

FIN 280/280/480. Topics in Finance.
Cr. 1-3. A detailed examination of selected topics pertinent to the field of finance to be offered when sufficient interest and staffing are available. Prerequisites will vary depending on topics being covered.

FIN 304. Financial Management.
Cr. 3. A survey of the field of financial management. Major topics include the financial environment, financial statement analysis and forecasting, leverage, working capital management, assessment of risk, the time value of money, valuation of securities, and capital budgeting. Consideration is given to these topics as well as to ethical relationships among the firm's contract holders. Prerequisites: ACC 205, ECON 221 and completion of at least 48 credit hours.

Cr. 3. A study of management techniques of financial institutions in the context of their role in the US financial system. The primary objective of this course is learning to measure and manage risk within financial institutions. Prerequisites: FIN 304, and IDS 110 or CS 157.

FIN 410. Theory of Corporate Finance.
Cr. 3. A study of the theory of corporate finance with emphasis on analytic and quantitative problem solving. Topics covered include risk measurement and management; the cost of capital, capital budgeting, capital structure and dividend policy, and valuation theory. Spreadsheets will be employed where applicable. Prerequisites: FIN 304, either IDS 110 or CS 157, and completion of or concurrent enrollment in IDS/MATH 340.

FIN 420. Investment Management.
Cr. 3. A study of security markets and investment types emphasizing methods of analysis for selection of investments. Primary focus is given to the stock and bond markets. Sources of data, portfolio theory, and management of portfolios are discussed. Prerequisites: FIN 304, and IDS 110 or CS 157.

Cr. 3. This course develops an understanding of the use of options, futures, swaps and other derivative financial instruments. In addition to a discussion of the basic valuation models, the use of derivatives in risk reduction strategies is extensively developed. Prerequisite: FIN 420.

FIN 440. International Finance.
Cr. 3. An introduction to the functioning and management of the firm in international markets. An emphasis is placed on the multinational firm but increasing globalization makes international finance of concern to virtually every business operation. Coverage includes the international financial environment, and the measurement and management of risk exposure, particularly foreign exchange exposure, arising during international operations and trade. In addition, financing and investing decisions are considered in the international context. Prerequisite: FIN 304.

Cr. 3. An analysis of the financial strategy of the firm with regard to investment and financing decisions. Evaluation of the risk and return of various financial strategies is emphasized. Students will have the opportunity to develop and enhance their financial skills through reading articles drawn from the finance literature and through the analysis of case studies allowing students to integrate the skills and knowledge developed in earlier business courses. Prerequisites: FIN 410 and IDS/MATH 340.

FIN 495. Independent Study in Finance.
Cr. 1-3. An independent research effort. It requires approval of a research proposal by a member of the college faculty and the Dean. May not be used as a substitute for a course which covers the proposed research area. Prerequisites: approved research proposal and permission of the Dean.

INFORMATION AND DECISION SCIENCES
IDS 110. Business Spreadsheet Applications.
Cr. 1. An introduction to using spreadsheets as decision support system generators in order to create specific applications such as templates and what-if scenarios. Emphasis is on user interface, macro development, and forms coupled with business functions. Prerequisite: MATH 110 or placement higher than MATH 110 on the math placement exam.

IDS 111. Business Applications Programming.
Cr. 1. An introduction to programming business applications using spreadsheets and application development languages. Emphasis is upon structured programming using sequence, selection, and iteration constructs in an object-oriented environment. Prerequisite: IDS 110 or CS 157.

Cr. 3. A course in the elements of statistical inference and the application of statistical methods to business problems. Content includes probability theory, probability distributions, descriptive statistics, sampling distributions, parameter estimation, and tests of hypotheses. Prerequisite: MATH 122 or 124 or 131 or 151.

IDS 290/390/490. Topics in Information and Decision Sciences.
Cr. 1-3. An introduction to the functioning and management of the firm in international markets. An emphasis is placed on the multinational firm but increasing globalization makes international finance of concern to virtually every business operation. Coverage includes the international financial environment, and the measurement and management of risk exposure, particularly foreign exchange exposure, arising during international operations and trade. In addition, financing and investing decisions are considered in the international context. Prerequisite: FIN 304.

IDS 305. Production-Operations Management.
Cr. 3. A study of operations of manufacturing and service organizations, and the corresponding requirements placed upon management. Content includes forecasting, regression, inventory management, MRPI, capacity planning, transportation, facility location and layout, quality, reliability, project management, and scheduling. It includes the use of management science techniques and computer applications in the decision making process. Prerequisites: one of MATH 122, MATH 221, MATH 151, and either MATH 124, 132, or 152; and completion of or concurrent enrollment in IDS 205 or MATH 234 or MATH 264.

Cr. 3. (Also offered as CS 210 and LS 567.) This course offers an overview of potential, policies, politics, possibilities, and pitfalls of the e-business technologies of intranets, extranets, enterprise resource planning, electronic commerce (conducting business on-line) and electronic business (using information technology to manage the supply-chain), including hardware and software applications required for both. Prerequisite: junior standing.

Cr. 3. A course of fundamentals of management science techniques in decision-making process. The emphasis is on model building, problem formulation and solution using linear
IDS 495. Independent Study in Information and Decision Sciences.
Cr. 1-3. An independent research effort that requires approval of a research proposal by a member of the college faculty and the Dean. May not be used as a substitute for a course which covers the proposed research area. Prerequisites: approved research proposal and permission of the Dean.

Cr. 3. Study of the concepts and application of information systems to managerial decision making. It includes topics such as systems theory, data base concepts, data analysis and management, managerial interfaces and control. Prerequisites: IDS 205 and completion of or concurrent enrollment in ECE 465.

Cr. 3. Study of the concepts and application of information systems to managerial decision making. It includes topics such as systems theory, data base concepts, data analysis and management, managerial interfaces and control. Prerequisites: IDS 205 and completion of or concurrent enrollment in ECE 465.

MGT 100. Introduction to Contemporary Business.
Cr. 3. An overview of the dynamic world of global business, its basic functions and management tools. This interactive course introduces students to business decision-making in an integrative context and discusses the contemporary issues facing business people. This course is not open to College of Business Administration students who have completed 48 or more credit hours.

MGT 200. Sophomore Assessment Center.
Cr. 0. This course involves approximately one-half day of assessment activities. During the Assessment Center, students complete a series of exercises, aimed at evaluating their skill level on a variety of behavioral dimensions (e.g., communication, teamwork, problem-solving skills). During most exercises, trained assessors from the business community observe the students. The assessors provide immediate verbal feedback and complete written evaluation forms, which the students receive subsequent to the completion of the assessment center. Prerequisite: sophomore standing. S/U grade.

MGT 290/390/490. Topics in Business.
Cr. 1-3. A detailed examination of selected topics pertinent to the field of business to be offered when sufficient interest and staffing are available. Prerequisites will vary, depending on topics being covered.

MGT 300. Junior Assessment Center.
Cr. 0. This course involves approximately one-half day of assessment activities building on the exercises in MGT 200. During this Assessment Center, students complete a series of exercises, aimed at evaluating their skill level on a variety of behavioral dimensions (e.g., communication, teamwork, problem-solving skills). During most exercises, trained assessors from the business community observe the students. The assessors provide immediate verbal feedback and complete written evaluation forms, which the students receive subsequent to the completion of the assessment center. Prerequisite: junior standing. S/U grade.

MGT 304. Management and Organizational Behavior.
Cr. 3. Includes an overview of traditional functions of management but builds on elements of organizational theory and the behavioral sciences. Emphasis on developing interpersonal communication skills and leadership for the improvement of individual and group performance in the total organizational environment. Prerequisites: ACC 205, ECON 221, and completion of at least 48 credit hours.

MGT 310. Managing Human Resources.
Cr. 3. An introduction to the activities common to the field of human resource management, including human resource planning, job analysis, recruitment, selection, orientation and career development, compensation and benefits, health and safety, performance appraisal and discipline, training and development, and labor-management relations. Prerequisite: MGT 304.

MGT 315. Leadership and Interpersonal Skills.
Cr. 3. Describes the natures, dynamics, and parameters of various leadership approaches, with emphasis being placed on contemporary models of leadership. Also examines the role of interpersonal skills in leader effectiveness. This course assists future managers in developing the interpersonal skills they will need in different leadership roles. Prerequisite: MGT 304.

Cr. 3. The study and the applications of the essential managerial factors of various types of small business, including organizational, environmental and personal factors. It includes exposure to sources of information and assistance for the small business person. Prerequisites: MGT 304, FIN 304 and MKT 304.

MGT 381. Cooperative Education in Business Administration.
Cr. 2. The first of two sequential full-time paid work experiences in which students apply their business knowledge, skills, and abilities in an actual organizational setting. This course requires a satisfactory supervisor evaluation and submission of a final written report in approved form. Prerequisites: junior standing and approval of both the CBA Internship and Assessment Center Coordinator and the Director of the Career Center. S/U grade.

MGT 382. Cooperative Education in Business Administration II.
Cr. 2. The second of two sequential full-time, paid work experiences in which students apply their business knowledge, skills, and abilities in an actual organizational setting. This course requires a satisfactory supervisor evaluation and submission of a final written report in approved form. Prerequisites: completion of MGT 381 and approval of both the CBA Internship and Assessment Center Coordinator and the Director of the Career Center. S/U grade.

MGT 394. Business Internship Orientation.
Cr. 0.5. Focus is on preparing students for internships and future careers in business. Upon completion of this course, students will secure an internship and have the internship and related job description approved. In addition, students will learn about the internship requirements, including completion of the report, journal, presentation, cover letter and resume. Prerequisite: completion of at least 45 credit hours. S/U grade.

MGT 395. Internship Experience in Business Administration I.
Cr. 0.5. Students apply their business knowledge, skills and abilities in an actual organizational setting. Students keep a journal regarding their job experience while serving as an intern. Registration is in the semester of the actual work experience. Prerequisite: junior standing and completion of or concurrent enrollment in MGT 394. S/U grade.

Cr. 1. Students submit a written report and make an oral presentation regarding their internship experience. This course requires an evaluation from the employer and the internship coordinator. Prerequisite: completion of or concurrent enrollment in MGT 394 and MGT 395. S/U grade.

MGT 397. Internship in Business Administration II.
Cr. 2. Second work experience in which students apply their business knowledge, skills, and abilities in an actual organizational setting. This course requires an approved job description, an evaluation from the employer and the internship coordinator, and submission of a final written report. Registration is in the semester of the actual work experience. Prerequisite: completion of MGT 396. S/U grade.

MGT 398. Internship in Business Administration III.
Cr. 2. Third work experience in which students apply their business knowledge, skills, and abilities in an actual organizational setting. This course requires an approved job description, an evaluation from the employer and the internship coordinator, and a final written report. Registration is in the semester of the actual work experience. Prerequisite: completion of MGT 397. S/U grade.

Cr. 3. Focuses on managing change in today's highly dynamic organizational environments. The course explores approaches for managing technology, structure, work teams, and organizational culture within a sociotechnical
MGT 495. Independent Study in Business Administration. Cr. 1-3. An independent research effort. It requires approval of a research proposal by a member of the college faculty and the Dean. May not be used as a substitute for a course which covers the proposed research area. Prerequisites: approved research proposal and permission of the Dean.

MARKETING

MKT 290/390/490. Topics in Marketing. Cr. 1-3. A detailed examination of selected topics pertinent to the field of marketing to be offered when sufficient interest and staffing are available. Prerequisites will vary depending on topics being covered.

MKT 304. Marketing Management. Cr. 3. Emphasis is placed on the ethical application of marketing concepts, theories and principles which relate to product policy, promotional mix decisions, distribution and logistical planning and pricing. The international business environment, including social, cultural, economic, political-legal, competitive and technological variables, is studied and compared with American markets. The areas of buyer analysis, the utilization of marketing information systems, and market planning and analysis are also stressed. Prerequisites: ACC 205, ECON 221, and completion of at least 48 credit hours.

MKT 310. Marketing Research. Cr. 3. A course designed to introduce the marketing student to the areas of marketing research and marketing information systems. Coverage of marketing information system design and the marketing research process, including: research design and sources of information, data collection methods, sampling procedures, data analysis and interpretation, and the formal research report. Prerequisites: MKT 304 and completion or concurrent enrollment in IDS 340.

MKT 320. Sales Management. Cr. 3. A study of the managerial functions of professional selling to the industrial or organizational buyer. An overview of organizational, economic, and psychological influences on the organization's buying decisions. Emphasis on field and territorial management, recruitment and training of the sales force, sales forecasting techniques, routing, and personal selling principles. Prerequisites: MKT 304 and completion or concurrent enrollment in IDS 340.

MKT 330. Buyer Behavior. Cr. 3. An analysis of the psychological, social and economic influences which affect attitude formation and decision-making processes of consumers. An overview of the research methods used for determining characteristics of buyers is included. Prerequisite: MKT 304.

MKT 361. Retailing. Cr. 3. A study of the contemporary environment of the retailing industry with emphasis on techniques utilized in store location, merchandising, promotion and control. Prerequisites: junior standing and MKT 304.

MKT 362. Advertising. Cr. 3. An introductory course taught from a marketing perspective. The areas of market analysis, campaign planning and strategy, media selection and design of advertisements are emphasized. The legal environment of advertising and the role of the different service institutions, such as advertising agencies, are also covered. Prerequisites: junior standing and MKT 304.

MKT 430. International Marketing. Cr. 3. A study of managerial marketing policies and practices of organizations marketing their products and services in foreign countries. Specific stress will be placed on the relationship between marketing strategy, market structure, and environment. Prerequisite: MKT 304.
COLLEGE OF ENGINEERING

Mission. The mission of the College of Engineering is to educate qualified and motivated individuals in a strong undergraduate environment who, upon graduation, are prepared for lifelong learning and the pursuit of professional excellence by critically and creatively applying scientific knowledge to benefit society.

Objectives. Engineering is the art of applying scientific and practical knowledge to the solution of problems for the benefit of society. The curriculum integrates scientific and engineering principles, practical laboratory and computer experiences, engineering design experiences culminating in a major design project, and liberal learning in the tradition of Christian church-related colleges and universities. Special emphasis is given to communication skills, the humanities, and the social sciences. Students are enriched by participation in the academic, social, cultural, and spiritual life that is central to the Christian academic tradition at Valparaiso University. Graduates are prepared both for direct entry into the practice of engineering and for graduate school.

The Academic Program. Bachelor of Science degrees may be earned in civil, computer, electrical, and mechanical engineering. The goals of each of these programs are to build a strong foundation in mathematics, the natural and engineering sciences, and to provide introduction to engineering design during the early portion of the program. This is followed by courses with increased emphasis on engineering applications, design, teamwork, and interdisciplinary activity. Instruction in engineering design is integrated throughout the curriculum so that students advance toward higher levels of competence culminating in a senior design project which emphasizes formulation of problem statements and criteria, consideration of alternatives, and communication of results.

The laboratory program provides for first hand observation of physical phenomena, experience in data collection and analysis, verification of designs, written and oral communication, and teamwork. The use of computers in both the classroom and laboratory is fully integrated into the curriculum starting in the first semester. All engineering students are required to have a personal computer in their residence and are expected to use computer productivity tools and professional engineering software.

History. As early as 1873, civil engineering was taught at Valparaiso University. Sisters Ethel and Merle McCall were the first women engineering graduates each receiving civil engineering degrees in 1915. Full four-year programs were established in 1920, with offerings in Civil, Electrical and Mechanical Engineering. During World War II, with the shortage of male students, the program was temporarily reduced to two years at Valparaiso University followed by two years at Purdue University. After the war, four-year engineering programs were reinstated on campus through the initiative of students who raised funds and then designed and built a new engineering laboratory building. The first post World War II degrees were offered in 1951 in Civil, Electrical and Mechanical Engineering. The Indiana Delta Chapter of Tau Beta Pi, the national engineering honor society, was chartered in 1963. In 1968 the College of Engineering moved to the newly-constructed Gellersen Engineering and Mathematics Center. This facility was provided through the generosity of the late William A. Gellersen of Oakland, California. The building, located on the eastern edge of the campus, contains faculty offices, classrooms and laboratories of the College of Engineering.

The optional cooperative education program was initiated in 1983 and the first group of cooperative education students graduated in 1986.

Admission Requirements. The requirements for admission of first year students to the College are listed on pages 242-243 of this catalog. Students who do not meet the mathematics and science requirements for admission to the College of Engineering may be admitted to the Pre-Engineering Program in the College of Arts and Sciences as described on page 52. Upon satisfactory completion of the required mathematics and science courses, they may request admission to the College of Engineering.

Transfer Students. Academic work taken at other institutions is evaluated for advanced standing granted by the Registrar. The appropriate departmental chair then determines which credits apply toward the major and a Statement of Equivalence form is completed. Transfer students are urged to communicate with the chair of the department in which they hope to major prior to formally applying for admission to obtain a preliminary assessment of the duration of their course of study.

Accreditation. Bachelor of Science degree programs in Civil Engineering, Electrical Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

The Freshman Program. First year engineering students begin their program of study with a schedule of courses that is the same for all engineering majors. Work in a selected major begins in the second semester. A Freshman Engineering Coordinator serves as the academic adviser for all first-year freshmen.

The Exploring Engineering course, led by the Freshman Engineering Coordinator, is an integral part of the first-semester program. This course has two primary objectives. The first is to provide career guidance in selecting or confirming the student's choice of civil, computer, electrical or mechanical engineering as a major. The second is to connect the required calculus and physics courses to real engineering issues and problems. By introducing engineering applications of computers using professional engineering software tools, presentations by faculty from each of the engineering programs are designed to provide information about the practice of engineering and the career opportunities in each of the engineering disciplines. Class assignments provide introductory experiences with the theory and applications of each of the majors. To help each student confirm the choice of major, the course concludes with a three week workshop experience in the selected engineering major. Participation in selected professional extracurricular activities is required. Introductions to time management and study skills are provided. Mentors chosen from upper-division engineering students assist the faculty and offer peer instruction in the computer labs.

Herman and Helen Hesse Learning Resource and Assessment Center. The Hesse Learning Resource and Assessment Center is an academic support program for students in the College of Engineering.
In addition to their own computer, students have direct access to a wide variety of computing environments, e-mail, and the Internet on the campus computer network. Network connected computers for general student use are located in Gellersen Center, Schnabel Hall, and most residence halls. In addition, work stations and personal computers with applications software for engineering design, analysis, and simulation are located in various engineering laboratories. Residence halls have network access from individual rooms. ISP or dial-up access is available from off-campus locations.

**Senior Project.** All students in their senior year are required to complete a major design project. Students are organized into teams to plan, organize, execute, present, and document multidisciplinary design projects under the supervision of a faculty advisor.

**Student Professional Organizations.** To heighten student interest in the profession of engineering and in activities of the student body of the College of Engineering, the College provides general interest programs for all engineering students and sponsors social and recreational activities. Upon selecting a major, students are encouraged to join the student chapter of the related professional society. The American Society of Civil Engineers, the Institute of Electrical and Electronics Engineers, the American Society of Mechanical Engineers, and the Society of Women Engineers all have active student chapters on campus. In addition, there is a club of the Society of Automotive Engineers. Junior and senior students who have distinguished themselves by high scholarship, exemplary character, unselfish activity, and breadth of interest in their profession may be elected to membership in Tau Beta Pi, the national engineering honor society.

**Student Advisement.** The Freshman Engineering Coordinator is the academic adviser for first-semester students. When a major is declared, the student is assigned to an academic adviser from that department's faculty. Majors are usually declared in the second semester of the freshman year.

**College Organization.** Administratively, the College is an instructional unit under the direction of the Dean of Engineering. The individual programs in Civil Engineering, Computer Engineering, Electrical Engineering, and Mechanical Engineering are directed by the faculties of the three engineering departments under the leadership of Department Chairs. The Freshman Engineering Coordinator reports to the Dean.

**SPECIAL PROGRAMS OF THE COLLEGE OF ENGINEERING**

**Cooperative Education.** The ABET accredited cooperative education program provides a special five-year program for personal and career development which integrates classroom theory with career-related work experience. Employment in a salaried position allows students to gain valuable experience, to test career interests and to apply classroom knowledge in an environment related to their professional degree areas. The cooperative education student acquires engineering experience through a planned and supervised program which provides alternating periods of full-time campus study and full-time off-campus employment with one of over 100 co-op partners throughout the United States. The initial work assignment normally starts during the summer after the sophomore year. Academic credit is earned for each work period. Students typically complete four or five summer and semester work sessions with the same employer, which results in an annotation on their official transcript "ABET Co-op Ed Criteria Met." The Cooperative Education Program enhances the graduating engineer's placement status and some employers count the time served as a cooperative education student toward fringe benefits provided to employees.

**Internships.** The engineering internship program is an optional program in which all engineering students in good standing, except those participating in the cooperative education program, may participate during their summer breaks. Participation is limited to the summer between the freshman and sophomore years through the summer before the junior and senior year. Students interested in this program can earn up to three credit hours of academic credit for their participation in the program. This program is coordinated by the Department Cooperative Education Coordinators. Any students interested in participation in this program should see their Department Cooperative Education Coordinator for more information.

**Interdisciplinary Studies.** Programs can be arranged to meet special needs or interests of students studying engineering at Valparaiso University. Students interested in career fields such as electromechanical, biomedical or chemical engineering or medicine can enrich their engineering education through interdisciplinary programs by careful selection of technical and free electives. These programs involve replacing technical and free electives with courses from other disciplines. Each student plans a program of study in consultation with a faculty adviser and must secure approval of the Dean of Engineering. Upon graduation the student receives a Bachelor of Science degree in Civil, Computer, Electrical, or Mechanical Engineering.

**Digital Systems Design Minor.** This minor is available to qualified students who wish to document some background in computer hardware, but do not want to major in electrical engineering. The courses required for the completion of this minor are ECE 221, ECE 222, ECE 322 and two of the following: ECE 424, ECE 429, or ECE 450. The minor is available to any student, except those in the ECE department, who meet all of the prerequisites necessary to enroll in those courses that constitute the minor.

**Manufacturing Management Minor.** A minor in Manufacturing Management is offered jointly by the College of Engineering and the College of Business Administration (see page 230 for requirements).

**Double Degree Program.** Some students wish to obtain a Bachelor of Arts or Bachelor of Science degree in the College of Arts and Sciences or the College of Business Administration in addition to their degree in engineering. In general, this will require an additional year or more of study. To earn two degrees, students must earn 162 credit hours and attain a grade point average of at least 2.00 as well as complete all other graduation requirements for each degree. Students desiring double degrees must have their schedules approved by the Deans of both colleges involved. Further information may be obtained from the Deans.

**Majors and Minors.** A student may earn a major or minor in other colleges of the university by satisfying catalog course and credit requirements for the major or minor. Each major or minor will require at least one course of at least three credits above any and all course work presented for the
College of Engineering

engineering degree. The use of engineering courses that are cross-listed or have equivalent course content with courses required for the major or minor is established by official action of the other college. The major or minor will be noted on the student's official academic record.

Honors College. Students invited to participate in the program of Christ College take all required engineering courses as well as courses required in the honors program. Because Christ College courses replace certain non-engineering courses, the College of Engineering-Christ College combination normally requires only four years for completion. Christ College courses provide an enriched program in the humanities and satisfy General Education Requirements for the engineering program. Academic advisers are assigned for both the College of Engineering and Christ College. Engineering students invited to join Christ College are strongly urged to accept the invitation. Additional information is available from the Dean of Engineering.

International Experiences. Various optional programs are available through which engineering students may obtain improved understanding of and appreciation for the history, geography, language, culture, and engineering practices of other nations. In addition to the study opportunities on pages 12-13 and 18-24 of this catalog, engineering students are permitted to arrange an international cooperative education assignment.

Valparaiso International Engineering Program (VICE-German). VICE-German is a five-year program that combines a major in one of the four engineering fields with a major or minor in German. The program allows students to gain multi-cultural experience and German language proficiency along with technical engineering skills and prepares them for careers with one of many German research and manufacturing firms located in the United States. Students are required to fulfill all requirements for one of the four engineering majors; take one German course per semester beginning, at the latest, in the third semester; participate in Valparaiso University's study abroad program in Reutlingen, Germany in the seventh semester; enroll in at least one German-language engineering, science, or mathematics course while in Reutlingen; work in a cooperative education placement in Germany during the eighth semester and the ensuing summer; and reside in the Kade-Duesenberg German House and Cultural Center for at least two semesters. VICE-German is coordinated jointly by the College of Engineering and the Department of Foreign Languages and Literatures. Students who wish to enroll in VICE-German should see their engineering adviser and a German instructor as early in the freshman year as possible.

ACADEMIC POLICIES

Graduation Requirements. Students must complete one of the prescribed engineering curricula as described in the departmental listings. These prescribed courses satisfy the curriculum requirements of the Accreditation Board for Engineering and Technology. The evaluation of advanced standing of transfer students in the Statement of Equivalence is based on meeting these requirements. The Department Chair or Freshman Engineering Coordinator may waive the requirement for GE 100. The requirement will be replaced with a free elective.

In addition to other requirements set forth on pages 253-255 of this catalog, the student's grade point average must meet the following minimums for all work taken at Valparaiso University:

1. A cumulative GPA of 2.00 in all work.
2. A cumulative GPA of 2.00 in the engineering major. Courses to be included are those identified with the department prefix (CE, ECE, ME) corresponding to the major.
3. A cumulative GPA of 2.00 in General Education courses applicable to the desired degree.
4. A cumulative GPA of 2.00 in mathematics, science, general engineering, and other engineering courses outside the major that are applicable to the desired degree.

Academic Deficiency. Students whose cumulative resident grade point average in any of the four categories listed above under Graduation Requirements falls below 2.00 are considered academically deficient. Such students may be denied the privilege of continuing their studies by being suspended from College of Engineering unless they succeed in improving the quality of their work to the satisfaction of the faculty during the following semester. These students are considered to be on probation and may be required by their department to take certain prescribed courses and meet specific standards in order to continue their enrollment in the college. It is the policy of the College of Engineering that suspended students may not request reinstatement for one calendar year.

Guest Policy. A student not enrolled in the College of Engineering may take one engineering course per semester or summer session on the written recommendation of the Freshman Engineering Coordinator or a department chair and with the approval of the Dean of Engineering. Students who have been suspended from the College of Engineering and are presently enrolled in one of the other colleges may not enroll in an engineering course unless they have completed the course at an earlier date with an unsatisfactory grade (C- or lower). Courses that are cross-listed with departments in the other colleges and taken while on academic suspension may not be used to satisfy College of Engineering degree requirements.

Admission to Courses on a Satisfactory/Unsatisfactory Basis. The general policies for admission to courses on a S/U basis are found on page 249. Except for courses that are graded only on a S/U basis, the only S/U graded courses that may be used to satisfy specific degree requirements are academic area studies electives, physical education, and free electives. Courses that are not used to satisfy degree requirements may be taken on an S/U basis.

General Engineering

Barbara Engerer, Freshman Engineering Coordinator

See page 49 for the number of credit hours that may be applied toward a degree in the College of Arts and Sciences.

GE 100. Exploring Engineering. 2 Cr. 2, Cr. 3. This course provides an introduction to the engineering profession using hands-on projects to develop engineering skills. Topics include basic theory for each engineering major, engineering professional issues, computer applications, and academic survival skills. Teamwork is emphasized.
College of Engineering

Graduates projects, and serve as engineering teams, managers of engineering.

Leitch, Polito.

The Civil Engineering Program is designed to prepare the graduate to enter the practice of engineering or to pursue graduate study. The program is broad in scope requiring students to complete course work in five major branches of civil engineering (i.e., environmental, geotechnical, structural, transportation, and water resources engineering). Additional depth in one or several branches can be obtained through appropriate electives. The program emphasizes a high quality of technical education which is grounded in the arts and sciences by faculty dedicated to challenging teaching and extraordinary care for individual students. The department will strive to develop graduates who will be effective members of engineering teams, managers of engineering projects, and serve as leaders in the civil engineering discipline and within the broader community of church and society.

Program Educational Objectives.
The educational objectives of the Civil Engineering Program include the following:

1. Graduates shall possess a sound understanding of civil engineering concepts and the interrelation of these concepts with technical and nontechnical issues in business and society.
2. Graduates shall possess a desire for and appreciation of the importance of a commitment to lifelong learning as a means of professional development.
3. Graduates shall possess effective written and oral communication skills.
4. Graduates shall possess the ability to function effectively as team members.
5. Graduates shall have the desire and the ability to actively contribute to the discipline of civil engineering and/ or society as a whole.

Civil engineering is the profession in which a knowledge of the mathematical and physical sciences gained by study, experience and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the progressive well-being of mankind in creating, improving and protecting the environment, in providing facilities for community living, industry, transportation, and in providing structures for the use of mankind.

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Civil Engineering

Associate Professors Aljobeh (Chair), Weiss; Assistant Professors Leitch, Polito.

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Civil Engineering

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CE 212. Materials Engineering.
2+3, Cr. 3. Study of the mechanical and physical properties of construction materials. Introduction to concrete mix design. Laboratory experiments include the measurement of strains using mechanical gauges and electrical resistance strain gauges; behavior and failure of ductile and brittle materials subjected to shear or bending forces; introduction to creep, impact and stability of columns. A design project is required, as well as written reports. Prerequisite: CE 215.

Cr. 3. (Also offered as ME 315 and PHYS 215.) Concepts of stress and strain, stress-strain relationships, states of plane stress and strain at a point; elementary analysis of stress distributions and deformations for axial loading of prismatic members, torsional loading of circular shafts and bending of beams, combined loading; plastic elastic action, and an introduction to statically indeterminate problems. Prerequisite: GE 109.

CE 253. Transportation.
Cr. 3. Introduction to transportation engineering with an emphasis on highway design. Topics include transportation demand and planning, aerial photography and other remote sensing systems, soil mechanics and pavement design, traffic and transportation studies. Field trips are required. Prerequisite: GE 109.

CE 290. Topps in Civil Engineering.
Cr. 2-4. Seven weeks or semester. The investigation of civil engineering topics of special interest. Prerequisites: depend on topics offered. Offered upon sufficient demand.

CE 299. Sophomore Honor Studies in Civil Engineering.
Cr. 1-3. Independent study of an advanced topic in civil engineering. Available by invitation only. Prerequisite: approval by the Civil Engineering Department.

CE 315. Structural Analysis I.
Cr. 3. Application of fundamental analysis concepts to the behavior of civil engineering structures and structural components. Analysis of statically determinate and indeterminate structures using classical methods such as Slope Deflection and Moment Distribution. Introduction to computer-aided structural analysis computer program. Prerequisite: CE 215.

CE 316. Structural Design I.
Cr. 3. Principles of the design of steel structures. Design includes axial tension and compression members, fluestral members, beam-columns, connections, and composite design. LRFD methods are used. Prerequisite: CE 315.

CE 320. Soil Mechanics.
3+3, Cr. 4. The study of index, mechanical and hydraulic properties of soils. Soil identification, compaction, shear strength, consolidation, vertical stress distribution, and flow through porous media. Principles of laboratory identification and testing of soils. Site investigation and instrumentation. Prerequisites: CE 212, CE 215 and CE 332 (may be taken concurrently).

CE 322. Soil and Foundation Engineering.
Cr. 3. A continuation of CE 320. Lateral earth pressures, retaining wall design, elastic stress distribution, settlement, and bearing capacity of foundation systems. Sizing of shallow and deep foundation systems. Prerequisite: CE 320.

CE 332. Hydrology.
Cr. 3. Introduction to surface and ground water hydrology: hydrologic cycle, precipitation, evaporation, infiltration, groundwater flow, well hydraulics, runoff, rainfall-runoff relationships, uniform flow in open channels, streamflow measurements, hydrologic routing, hydrologic modeling, hydrologic probability, and applications. Prerequisite: MATH 131.

3+3, Cr. 4. An examination of fluid properties, fluids at rest, and fluids in motion. Conservation of mass, and the energy and momentum principles are utilized along with dimensional analysis and similarity. Applications include pumps, flow in conduits, lift and drag, pipe networks, and hydraulic model studies. Integrated with the fluid mechanics per se are principles of mechanics-dynamics. Prerequisites: MATH 132 and CE 215.

CE 384. Environmental Engineering I.
3+3, Cr. 4. Introductory study of water treatment and supply, wastewater collection and treatment common to rural and metropolitan areas. Laboratory principles and methods related to safety, sampling, data analysis, and measurement of selected physical, chemical, and biological characteristics of water and wastewater are introduced. Field trips are required. Prerequisites: CE 334 and CHEM 116.

CE 399. Junior Honor Studies in Civil Engineering.
Cr. 1-3. Independent study of an advanced topic in civil engineering. Available by invitation only. Prerequisite: approval by the Civil Engineering Department.

CE 415. Structural Analysis II.
Cr. 3. Analysis of statically indeterminate structures using energy and/or matrix methods. Direct stiffness and flexibility methods are discussed as are a variety of applications in structural analysis software including response to load changes such as blast, earthquake, etc. Prerequisite: CE 315.

CE 417. Structural Design II.
Cr. 3. Principles of the design of reinforced concrete structures. Design includes flexural members, compression members, one-way slabs and footings. ACI Strength Design Method. Prerequisite: CE 315.

CE 418. Structural Design III.
Cr. 3. Analysis and design of masonry structural system components. The use of appropriate specifications in design. Design projects may be required. Taught in alternate years. Prerequisite: CE 315.

Cr. 3. Application of the principles of fluid mechanics to analysis and design of water resources projects. Topics include open channel hydraulics, hydroelectric power, economic analysis, dams, spillways, river navigation, flood control, and water law. Prerequisite: CE 334 or ME 373.

CE 457. Traffic Engineering.
Cr. 3. Fundamental traits and behavior of road users and their vehicles. Characteristics of a free-flowing traffic stream; capacity and level of service of urban and rural highways, signals and signalized intersection capacity; traffic speeds, volumes, signing and marking; accidents and safety. Taught in alternate years. Prerequisite: CE 253 or consent of instructor.

CE 465. Environmental Engineering I.
Cr. 3. Introductory study of solid and hazardous waste management and air pollution control. Study of solid and hazardous waste disposal, source reduction, composition, magnitude, and regulations. Engineered solid waste management functional elements will be introduced. Landfiling methods including siting and modern landfill designs will be studied. Introduction to air pollution sources, quality, meteorology, atmospheric dispersion modeling, and control methods. Field trips are required.

CE 466. Environmental Engineering Design.
Cr. 3. A basic overview of remediation of contaminated soil and groundwater at hazardous waste sites including development of site investigation plans, management of field investigations, environmental risk assessments, feasibility studies, innovative remedial design techniques, and case studies. Oral and written reports and field trips are required.

CE 490. Topics in Civil Engineering.
Cr. 2-4. Seven weeks or semester. The investigation of civil engineering topics of special interest. Specific prerequisites depend on topics offered. Offered upon sufficient demand. Prerequisite: junior standing or approval of the instructor.

CE 494. Senior Design Project.
Cr. 2+2, Cr. 3. Student teams participate in the planning, analysis and design of integrated and realistic civil engineering projects. Knowledge gained in previous courses is used to incorporate the ethical, legal, societal, multicultural, economical, financial, aesthetic, and environmental aspects in the solution. In addition, the elements of management and communications are involved. The course may include field trips and lectures by practicing professionals. Oral and written reports are required.

CE 499. Senior Honor Studies in Civil Engineering.
Cr. 1-3. Independent study of an advanced topic in civil engineering. Available by invitation only. Prerequisite: approval by the Civil Engineering Department.

Electrical and Computer Engineering

Professors Hart, Kraft, Olejniczak; Associate Professors Goodman, E. Johnson, Tougaw (Chair); Assistant Professor Will; Adjunct Assistant Professor Kempf.

The Department of Electrical and Computer Engineering offers two degree programs: Electrical Engineering and Computer Engineering. These two degrees share a fundamental theoretical background that is reflected by many common courses and shared laboratory facilities. Digital design courses introduce the formulation of design problems and the use of computer-aided design tools. During the junior year, students refine these design elements while studying digital filter design, electronics, and the design of hardware to interface with embedded microprocessors. Students also participate in modest group design projects. During the senior year, students begin a systematic study of the design process and apply the design skills developed in the junior year. A capstone project is required, which requires the consideration of realistic constraints, formal project management, the building and testing of a design prototype, and thorough documentation. The department supports a diverse set of laboratory facilities. The electronics and power laboratory supports work in digital and analog systems. This large facility also includes equipment for power electronics and power systems. The digital systems laboratory is used to study digital filtering systems and advanced digital logic design.
The computer laboratories contain a network of workstations, PCs, peripherals, and embedded microcontroller software and hardware development systems. Design teams use the project laboratory to build and test their prototypes.

**ELECTRICAL ENGINEERING**

**Electrical Engineering Mission.** The purpose of the Electrical Engineering Program is to educate qualified and motivated individuals in an exclusively undergraduate environment who, upon graduation, are prepared for lifelong learning and the pursuit of professional excellence in the field of electrical engineering, and who base their professional and personal decisions on the ethical, moral and social values which are central to Valparaiso University.

**Electrical Engineering Program Educational Objectives.** The educational objectives of the electrical engineering program are to:

1. Prepare students to practice electrical engineering in such areas as digital systems design, electronics, embedded microcontrollers, software development, power systems, communication systems, or signal processing.
2. Prepare students to communicate effectively in a wide variety of situations using appropriate tools.
3. Prepare students to work effectively on teams in a variety of roles.
4. Prepare students to design electrical engineering systems using creativity, technical competence, and problem-solving skills.
5. Prepare students to assume their ethical and professional responsibilities to meet the needs of society.
6. Prepare students to function in a competitive business environment by understanding the necessary economic and business practices.
7. Prepare students to appreciate the need for and to engage in continuous independent learning activities.

**Graduation Requirements.** The following courses and electives are required to earn the Bachelor of Science in Computer Engineering degree. A typical plan of study for each semester is published in the Student Guide to University Life.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CORE 110</td>
<td>The Human Experience</td>
<td>6 Cr.</td>
</tr>
<tr>
<td>CORE 115</td>
<td>The Human Experience</td>
<td>6 Cr.</td>
</tr>
<tr>
<td>ENGL 200</td>
<td>Literary Studies</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>Introduction to Chemistry</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>MATH 131</td>
<td>Analytic Geometry and Calculus I</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>MATH 132</td>
<td>Analytic Geometry and Calculus II</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Differential Equations and Linear Algebra</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>PE 101-105</td>
<td>Physical Education</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>PHYS 141</td>
<td>(or 151) Mechanics and Heat</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>PHYS 141L</td>
<td>Experimental Physics</td>
<td>1 Cr.</td>
</tr>
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<td>(or 162) Electricity, Magnetism, Waves</td>
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<td>PHYS 243</td>
<td>Atoms and Nuclei</td>
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<td>THEO 110</td>
<td>Theology Foundation</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>ENGG 110</td>
<td>Engineering Laboratory</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>ECE 110</td>
<td>Exploring Electrical and Computer Engineering</td>
<td>2 Cr.</td>
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<td>Sampled Linear Systems</td>
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<td>Electromagnetic Field Theory</td>
<td>3 Cr.</td>
</tr>
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<td>ECE 466</td>
<td>Probability and Electrical and Computer Engineering</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>MATH/SCIENCE</td>
<td>Scientiﬁc Elective</td>
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</tr>
<tr>
<td>ECE 361</td>
<td>Exploring Electrical and Computer Engineering</td>
<td>3 Cr.</td>
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<tr>
<td>ECE 110</td>
<td>Exploring Electrical and Computer Engineering</td>
<td>2 Cr.</td>
</tr>
</tbody>
</table>

**Total required for graduation 130 Cr.**

**Electives.** Specific recommendations regarding the selection of electives are available from the department and should be made in consultation with a departmental academic advisor.

**Electrical Engineering Electives.** Twelve credits must be taken by choosing four of the following eight courses: ECE 258, 372, 424, 429, 450, 452, 453, and 471.

**Math/Science Elective.** The math/science elective requirement may be met by taking one of the following courses: STR 252, BIO 151, 152, 171, 172, 210, 250, or 270, CHEM 116, 122, 221, or 220, MATH 130, 136, 138 or 154, ECE 367, PHYS 250, 360, 381, 421, 430, or 440. Other choices may be made available by petition to the ECE department. An updated list of approved math/science electives may be found on the College of Engineering web site.

**Engineering Science Elective.** The engineering science elective requirement may be met by taking one of the following courses: GE 109, ME 252, ME 270, ME 333, or ME 444. Other choices may be made available by petition to the ECE department.

**Professional Electives.** These courses are selected in consultation with the advisor to support the student's specific career goals. See the College of Engineering web site.

**Academic Area Studies Elective.** One course of at least three credits from either the list of Academic Area Studies 2.a. through 2.g. (see pages 43-44), an upper-level Christ College course, or an International Studies Program course. Other courses not included in this list may be proposed for approval by the Dean of Engineering.

**Social Analysis Elective.** One course from the list of Academic Area Studies 2.g. (see page 44).

**Cooperative Education.** Up to six credits of GE 481 through GE 483 may be used to satisfy the professional elective requirement if a minimum of six credits of cooperative education have been completed.

**COMPUTER ENGINEERING**

**Computer Engineering Mission.** The purpose of the Computer Engineering Program is to educate qualified and motivated individuals in an exclusively undergraduate environment who, upon graduation, are prepared for lifelong learning and the pursuit of professional excellence in the field of computer engineering, and who base their professional and personal decisions on the ethical, moral and social values which are central to Valparaiso University.

**Computer Engineering Program Educational Objectives.** The educational objectives of the computer engineering program are to:

1. Prepare students to practice computer engineering in such areas as digital design, embedded systems, computer architecture, or software development.
2. Prepare students to communicate effectively in a wide variety of situations using appropriate tools.
3. Prepare students to work effectively on teams in a variety of roles.
4. Prepare students to design computer engineering systems using creativity, technical competence, and problem-solving skills.
5. Prepare students to assume their ethical and professional responsibilities to meet the needs of society.
6. Prepare students to function in a competitive business environment by understanding the necessary economic and business practices.
7. Prepare students to appreciate the need for and to engage in continuous independent learning activities.

**Graduation Requirements.** The following courses and electives are required to earn the Bachelor of Science in Computer Engineering degree. A typical plan of study for each semester is published in the Student Guide to University Life.

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</tr>
</tbody>
</table>

**Total required for graduation 130 Cr.**
College of Engineering

Electives. Specific recommendations regarding the selection of electives are available from the department and should be made in consultation with a departmental academic advisor.

Computer Engineering Electives. Six credits must be taken by choosing two of the following three courses: ECE 429, 450, and 452.

Engineering Science Elective. The engineering science elective requirement may be met by taking one of the following courses: GE 109, ME 252, ME 270, ME 333, or ME 444. Other choices may be made available by petition to the ECE department.

Professional Electives. These courses are selected, in consultation with the adviser, to support the student’s specific career goals. See the College of Engineering web site.

Academic Area Studies Elective. One course of at least three credits from either the list of Academic Area Studies 2.a. through 2.g. (see pages 43-44), an upper-level Christ College course, or an International Studies Program course. Other courses not included in this list may be proposed for approval by the Dean of Engineering.

Social Analysis Elective. One course from the list of Academic Area Studies 2.g. (see page 44).

Cooperative Education. Up to six credits of GE 481 through GE 483 may be used to satisfy the professional elective requirement if a minimum of six credits of cooperative education have been completed.

ELECTRICAL AND COMPUTER ENGINEERING COURSES

See page 49 for the number of credit hours that may be applied toward a degree in the College of Arts and Sciences.

ECE 110. Exploring Electrical and Computer Engineering. Cr. 2. An introductory course emphasizing basic circuit analysis, characteristics of common electrical devices, computer tools including simulations, and problem-solving techniques. Prerequisite: MATH 131 or concurrent registration.

ECE 111. Exploring Electrical and Computer Engineering Laboratory. 0-3, Cr. 1. Accomplishment of ECE 110 with emphasis on laboratory technique and the characteristics of electrical devices. Conquisite: ECE 110.

ECE 155. Algorithms and Programming. Cr. 3. Introduction to the design of sequential and concurrent algorithms. Software engineering principles and practices relating to program design and implementation. Concurrence issues and practices for parallel algorithm design. Students cannot receive credit for both CS 157 and ECE 155.

ECE 202. Computational Techniques for Electrical and Computer Engineers. Cr. 3. Introduction to the solution of electrical and computer engineering problems using computers. Important software packages such as LabVIEW, MATLAB, and SPICE are used. The course is designed to complement ECE 263.

ECE 221. Digital Logic Design. 2.5+1.5, Cr. 3. (Also offered as CS 220.) An introduction to digital logic concepts, including the analysis and design of combinational and sequential digital circuits.

ECE 222. Advanced Logic Design. 2.5+1.5, Cr. 3. A continuation of ECE 221 that includes the design of MSI and LSI digital circuits using a hardware description language (VHDL). Designs are also implemented in programmable logic devices (PALs, CPLDs). Prerequisite: ECE 221 with a minimum grade of C.

ECE 258. Algorithms and Abstract Data Types. 2+2, Cr. 3. A continuation of ECE 155 with emphasis on developing more skills in complex program development and data structures. Topics include stacks, queues, and linked lists. Students design and write intermediate-sized programs. Prerequisite: ECE 155 or CS 157.

ECE 263. Linear Circuit Theory I. 3.5+1.5, Cr. 4. A study of the fundamental methods and theorems of electric circuit analysis with emphasis on analytical and computer-aided methods. AC and DC analysis, transients and complete response. Instantaneous and average power. Introduction to instrumentation and measurement in electrical circuits. Prerequisite: MATH 131.

ECE 264. Linear Circuit Theory II. 3.5+1.5, Cr. 4. A continuation of ECE 263. The complex frequency plane; resonance; coupled circuits, two-port parameters. A study of polyphase analysis; Fourier series; Fourier transform; Laplace transform. Laboratory methods of circuit measurement. Prerequisite: ECE 263 with a minimum grade of C and ECE 202.

ECE 281. Fundamentals of Electrical Engineering. 2.5+1.5, Cr. 3. (Also offered as PHYS 281.) A study of the fundamental methods of electrical circuit analysis with emphasis on computer-aided analysis. AC and DC circuits, operational amplifiers. Laboratory exercises emphasize measurement techniques and reinforce lecture material. Not applicable to a degree in electrical engineering. Prerequisite: MATH 131.

ECE 290. Sophomore Project. Cr. 1-3. An independent research, development, or design project done under the supervision of a faculty member. Prerequisite: sophomore standing.


ECE 322. (formerly ECE 320). Embedded Microcontrollers. 2.5+1.5, Cr. 3. (Also offered as PHYS 322.) The application of microcontrollers and embedded system design, emphasizing the interaction of hardware and software design. Use of assembly language programming to interface external hardware to a microcontroller. Prerequisite: ECE 221 with a minimum grade of C.

ECE 342. Electronics. 3.5+1.5, Cr. 4. (Also offered as PHYS 342.) An introduction to semiconductor theory and the design and analysis of electronic circuits. Topics include diodes, bipolar and field-effect transistors, single-stage and multistage amplifiers, frequency response, and feedback. Computer simulation is included as an analysis and design tool. Laboratory experiments emphasize evaluation of circuit performance and measurement techniques. Prerequisite: ECE 263 with a minimum grade of C.

ECE 357. Algebraic and Discrete Structures I. Cr. 3. (Also offered as MATH 267.) An introduction to mathematical reasoning, algorithm analysis and the concepts that provide a mathematical foundation for computer science. Topics include a review of sets, relations, functions and matrices; proof techniques, including mathematical induction; counting techniques; difference equations; applications and elementary analysis of iterative and recursive algorithms. Prerequisite: ECE 155.

ECE 360. Sampled Linear Systems. Cr. 3. An introduction to design and analysis of sampled linear systems emphasizing digital filtering algorithms. Prerequisite: ECE 264.

ECE 372. Energy Conversion and Transmission. 2.5+1.5, Cr. 3. A study of electromagnetic devices with emphasis on the principles and operating characteristics of transducers and rotating electrical machines. Fundamentals of electric power transmission and protection systems. Prerequisite: ECE 264.

ECE 390. Junior Project. Cr. 1-3. An independent research, development, or design project done under the supervision of a faculty member. Prerequisite: junior standing.


ECE 424. Computer Architecture. Cr. 3. The description, organization, and design of computer elements to perform effectively, instruction set design, caches, pipelining, and microprogramming. Prerequisite: ECE 222.

ECE 429. VLSI Design Principles and Tools. Cr. 3. An introduction to the fundamental principles of CAD systems for integrated circuit design. Extensive use of CAD tools for layout and simulation. Techniques for speed and size trade-off are studied. Prerequisites: ECE 221 and 263 with minimum grades of C in both.

ECE 430. Electromagnetic Field Theory. Cr. 3. The study of fundamental laws of static and dynamic electric and magnetic fields using vector methods. Topics include transmission lines, Maxwell’s equations and electromagnetic radiation. Prerequisite: MATH 253.


ECE 452. Digital Signal Processing. 2.7+1, Cr. 3. Overview of the theory and techniques of digital signal processing. Introduction to control system design. Prerequisite: ECE 360.

ECE 453. Communication Theory. Cr. 3. Methods of transmission of information by electrical signals through channels limited by bandwidth and additive noise. The characteristics of standard analog and digital modulation schemes such as AM, FM, PAM, PCM are investigated and related to their channel requirements. Prerequisites: ECE 360 and ECE 465.

ECE 465. Probability for Electrical and Computer Engineers. Cr. 3. Basic discrete and continuous probability theory with applications, sampling, correlations, and regression, and multiple random variables. Prerequisites: ECE 264 and MATH 253.

ECE 471. Power Electronics. 2.7+1, Cr. 3. A course in the application and design of power semiconductor circuits. Topics include rectifiers, AC controllers, inverters and switched-mode power supplies. Prerequisite: ECE 264.

ECE 490. Topics in Electrical and Computer Engineering. Cr. 1-3. The investigation of electrical engineering or computer engineering topics of special
3. Prepare graduates to be proficient in a variety of engineering applications.

5. Prepare graduates to work effectively on teams in a variety of roles.

7. Prepare graduates to be proficient in a laboratory setting. They will have good hands-on skills with mechanical/ electrical hardware and data acquisition software. They will be able to design experiments and use uncertainty analysis tools.

6. Prepare graduates with a broad based education which includes a strong liberal arts component to frame and focus their technical skills and enhance their quality of life.

Program Overview. The practice of mechanical engineering includes a wide variety of technical activities in the areas of energy conversion, automatic control of engineering processes, and the design, development, and manufacture of mechanical components and systems. Mechanical engineering contributes to almost every aspect of our society.

The Mechanical Engineering Program prepares the individual for leadership roles on multidisciplinary teams that will tackle both technical and nontechnical issues. A curriculum solidly comprised of fundamental engineering course work and the humanities and social sciences is an essential element in the preparation process.

Courses are sequenced to build upon a firm foundation in mathematics, basic sciences, and engineering sciences. Courses progressively involve students in engineering design activities and culminate in a major interdisciplinary design experience during the final year of study. Alongside technical issues, design activities address economic, safety, environmental, sustainability, product development, and social factors.

Graduates of the Mechanical Engineering Program at Valparaiso University are fully qualified to enter industry as a practicing engineer or to pursue advanced degrees.

Mechanical Engineering Laboratories. The Mechanical Engineering Program contains a significant laboratory component which is closely correlated with lecture courses. There are eight primary laboratory facilities within the Department. Additional laboratory facilities support senior design projects. Personal computers with appropriate hardware and software are available in the laboratories for mechanical design, to acquire and analyze data, to control hardware, and to report results in a graphic and tabular form.

The Mechanical Measurements and Mechatronics Laboratory complements instruction in the use of standard measurement equipment, calibration techniques, computer data acquisition and the study of mechanical and electrical systems.

The Energy Systems Laboratory provides the opportunity to study systems such as spark ignition and compression ignition engines, investigations into the laws governing the conversion and transfer of energy are conducted in the Measurements and Mechatronics Laboratory which includes many unique pieces of laboratory equipment. The Automatic Control Laboratory is used to conduct experiments with simulated process systems and the associated instrumentation to control these processes.

The Manufacturing Process and Systems Laboratory supports instruction in methods and theory of metal working, automation, product design and development, and the design, operation, and control of production systems. In addition to metal cutting, forming, welding, grinding and inspection equipment, this laboratory contains the Integrated Manufacturing and Design Facility with Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) software, Computer Numerically Controlled (CNC) machine tools, robots, and vision systems. The Materials Science Laboratory contains equipment for conducting a variety of materials experiments including impact, tension, creep, cold working, hardness and nondestructive testing. Special emphasis is placed upon modification of material properties by heat treatment. Metallicurgical specimens are prepared and examined. The Experimental Stress Laboratory provides primary equipment for strain/stress analysis including electrical resistance strain gauges and photoelasticity. The Vibrations Laboratory contains mechanical and electrical vibration excitation and measuring devices along with equipment to perform modal analysis and sound measurement.

Mechanical Engineering Curriculum. The following courses and electives are required to earn the Bachelor of Science in Mechanical Engineering degree. A typical plan of study for each semester is published in the Student Guide to University Life.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE 110 The Human Experience</td>
<td>5 Cr.</td>
</tr>
<tr>
<td>CORE 115 The Human Experience</td>
<td>5 Cr.</td>
</tr>
<tr>
<td>CHEM 115 Essentials of Chemistry</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>ENGL 200 Literary Studies</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>MATH 131 Analytic Geometry and Calculus</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>MATH 132 Analytic Geometry and Calculus</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>MATH 234 Differential Equations and Linear Algebra</td>
<td>4 Cr.</td>
</tr>
</tbody>
</table>

Total required for graduation ....... 130 Cr.

Mathematics/Science Elective. This elective requirement may be met with a course from Biology, Chemistry, Mathematics, Computer Science, Physics, or Information and Decision Sciences 205. A list of courses that fulfill the requirement is available in the Chair's Office.

Cooperative Education. GE 481 through GE 483 credits may be used to satisfy the free elective requirement. Courses GE 481-483 are graded S/U only.

Academic Area Studies Elective. One course of at least three credits is selected from either the list of Academic Area Studies 2.0 through 2.9 (see pages 43-44), an upper-level Christ College course, or an International Studies Program course. Other courses not included in this list may be proposed for approval by the Dean of the College of Engineering.

Social Science Elective. One course is selected from the list of Academic Area Studies 2.0 (see page 44). Other social science courses not included in this list may be proposed for approval by the Dean of Engineering.

Free Elective. Students are encouraged to select a course aligned with enhancing
their life goals. A public speaking course is recommended for individuals who have not had a formal course in this subject. A speech course should be selected from COMM 140, 145, or 243.

**Manufacturing Management Minor.** This interdisciplinary minor is described on page 230.

**Mechanical Engineering Electives.** Twelve credits of mechanical engineering courses are to be selected to provide areas of individual study emphasis. Up to three credits may be substituted for students taking an approved technical concentration outside the College of Engineering. Only three hours of ME 499 course credits may be applied as an ME elective.

Courses which fulfill mechanical engineering elective requirements are indicated with a superscript **m**.

**ME 104. Computer-Aided Design.** 2-3, Cr. 3. A course in the theory and technique of engineering graphics related to the design process. Emphasis is placed on orthogonal and isometric projections, oblique and section views, and dimensioning and tolerancing. The laboratory focuses on 3-D modeling strategies including wire frame, solid modeling and parametric modeling using computer-aided drafting.

**ME 209. Mechanics-Dynamics.** Cr. 3. A study of the motion of a particle and systems of particles in rectilinear, curvilinear and polar coordinates. The course includes motion of a rigid body in translation, rotation and general plane motion, forces involved in moving systems, use of work and energy relations, impulses and momentum. Prerequisites: MATH 132 and GE 109.

**ME 225. Computer Languages and Applications.** Cr. 3. Problems in mechanical engineering are solved using numerical methods, a structured programming language, and MATLAB software. Topics in numerical methods include solutions of simultaneous linear and nonlinear equations, differentiation, integration, regression analysis, and solution of ordinary differential equations. Corequisite: MATH 234.

**ME 252. Materials Science.** 2.5+1.5, Cr. 3. (Also offered as PHYS 252.) A study of structure-property-processing relationships of engineering materials related to their selection in design and manufacturing processes. Methods of controlling structure and mechanical properties of materials are studied with an emphasis on the strengthening mechanisms. Processes studied include solidification, phase transformation, and mechanical interlocking of metals. A field trip to an industrial facility is arranged. Prerequisite: MATH 132 or MATH 152, corequisite: CHEM 115.

**ME 253. Manufacturing Processes.** 3+3, Cr. 4. (Also offered as ME 354.) A study of manufacturing emphasizing metal cutting and forming; operation planning, fabrication techniques and inspection. Statistical Process Control (SPC), application of machine tools and Computer Numerical Control (CNC) are introduced. Field trips to industrial facilities are arranged. Prerequisite: ME 104.

**ME 270. Thermodynamics I.** Cr. 3. A study of the first and second laws of thermodynamics. Extensive use of these laws is made in analyzing processes and cycles. Additional topics covered are ideal gases, non-reactive gas and gas-vapor mixtures as well as other simple compressible substances. Prerequisites: MATH 132 and PHYS 141.

**ME 315. Mechanics of Materials.** Cr. 3. (Also offered as CE 215 and PHYS 215.) Concepts of stress and strain, stress-strain relationships, states of plane stress and strain at a point; elementary analysis of stress distributions and deformations for axial loading of prismatic members, torsional loading of circular shafts and bending of beams, combined loading; plastic elastic action, and an introduction to statically indeterminate problems. Prerequisite: GE 109.

**ME 332. Mechatronics.** 2.5+1.5, Cr. 3. A study of digital logic design, actuators, sensors and controllers applied to the design of mechanical systems. Emphasis is placed on digital logic design, pneumatic components and circuits, programmable logic controllers, systems-level modeling and systems engineering principles. Prerequisite: ECE 281.

**ME 333. Mechanical Measurements Laboratory.** 3+3, Cr. 4. (Also offered as PHYS 333.) A study of fundamental concepts and physical principles involved in the science of measurement and design of experiments. Experiments involve calibration and testing (both static and dynamic) of primary elements, signal amplifiers, transducers and readout devices. Experimentation utilizes laboratory and industrial instruments. Extensive use is made of computer data acquisition and analysis. Corequisites: ME 225 or ECE 155; prerequisites: CORE 110, PHYS 142 and ME 270.

**ME 345. Manufacturing Processes.** 3+3, Cr. 4. (Also offered as ME 253.) See course description for ME 263. Open only to non-Mechanical Engineering majors in the Manufacturing Management Minor program. Prerequisite: MATH 122 or MATH 131.

**ME 362. Mechanisms.** Cr. 3. Graphical and analytical approaches to kinematic analysis and synthesis of linkages, gears and cams. Linkage topics include displacement, velocity and acceleration analysis along with type, number and dimensional synthesis. Fundamentals of gears and gear trains are investigated. Cam sizing and application of motion programs to cam design are considered. Prerequisites: ME 209 and ME 225; corequisite: MATH 253.

**ME 372. Fluid Mechanics.** Cr. 3. The basic conservation equations in control volume form are developed and used in engineering applications of fluid motion. Topics include fluid statics and the dynamics of both compressible and incompressible flows. Prerequisite: ME 209.

**ME 374. Heat Power Laboratory.** 3, Cr. 1. Experimental studies designed to reinforce theory presented in the areas of heat transfer, thermodynamics and fluid mechanics. Experiments deal with topics such as flow and heat transfer mechanisms, refrigeration and internal combustion engines. Prerequisites: ME 270, ME 333, and ME 373; corequisite: ME 376.

**ME 376. Heat Transfer.** Cr. 3. The fundamentals of heat transfer by conduction, radiation and forced and free convection are developed and applied to engineering problems. Prerequisite: ME 270.

**ME 444. Automatic Control.** 2.5+ 1.5, Cr. 3. Fundamentals of instrumentation and control with particular application to the process industries. System dynamics are analyzed using step, ramp and frequency response techniques. Laboratory experiments involve system stability, controller selection and adjustment, numerical analysis techniques and system sequencing to achieve specific control objectives. Prerequisites: ME 333 and MATH 234.

**ME 456. Manufacturing System Design.** Cr. 3. A study of the application of Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM); robots, machine vision, Computer-Numerically-Controlled (CNC) machine tools, and computers to the design of automation systems. These systems are applied to automation, manufacturing, and assembly for economic production of mechanical components and systems. Prerequisites: ME 253 or senior standing in ECE.

**ME 457. Product and Production System Design.** 2.5+1.5, Cr. 3. (Also offered as ME 458.) Product design development and production system design are the focus of lectures and a semester-long laboratory experience in which a simple product and its production system are designed and produced. The design, operation, and control of production systems are studied with emphasis on manned and robot cellular manufacturing systems. Open only to non-Mechanical Engineering majors in the Manufacturing Management Minor program. Prerequisite: ME 253 or ME 354.

**ME 488. Product and Production System Design.** 2.5+1.5, Cr. 3. (Also offered as ME 457.) See course description above. Prerequisite: ME 253.

**ME 462. Vibrations.** 2.5+1.5, Cr. 3. Single and multiple degree of freedom systems and continuous media are analyzed with regard to natural frequencies, free, forced and damped vibrations. Practical aspects of vibration isolation, absorption, damping and noise measurement and reduction are considered. Analytical and experimental modal analysis techniques and finite-element analysis are presented. Prerequisites: MATH 234, ME 225, and ME 209.

**ME 463. Machine Design I.** 2.5+1.5, Cr. 3. The application of specialized topics in mechanics of materials to the design and analysis of machine elements. Topics considered include combined stress, contact stress, stress concentration, fatigue, deflection and theories of failure. Stress principles are applied to springs, bolts, joints and general mechanical elements. Prerequisite: ME 315.

**ME 464. Machine Design II.** 2.5+1.5, Cr. 3. A comprehensive study in the design and analysis of belt and chain drives, gearing, gear trains, antifriction and journal bearings. Shaft critical speeds, dynamic balancing and machine dynamics are considered. Prerequisite: senior standing in mechanical engineering.

**ME 468. Experimental Stress Analysis.** 2.5+1.5, Cr. 3. An introduction to experimental, theoretical, and computational methods for determining stress distributions in structures and machine components. Topics include photomechanics techniques, electrical resistance strain gauges, finite-element analysis with a review of stress and strain at a point, and biaxial stress-strain relations. Prerequisite: ME 315.

**ME 470. Thermodynamics II.** Cr. 3. Continuation of ME 270. Topics include combustion principles and cycle optimization.
ME 475. Advanced Thermodynamics.**
Cr. 3. The study of advanced topical matter in thermal sciences. Topics to be determined by instructor prior to course offering. Topics may include compressible fluid flow, computational fluid dynamics, gas turbines, or propulsion. Prerequisites: ME 270, ME 373, and ME 376.

ME 478. Heat Power Design.**
2+3, Cr. 3. A design-oriented course using a team approach. Open-ended problems are assigned which involve the synthesis of heat transfer, flow, and energy conversion components. Presentation of oral and written reports is an important part of the course. Prerequisites: ME 270, ME 373 and ME 376.

ME 490. Topics in Mechanical Engineering.**
Cr. 2-3. Seven weeks or semester. The investigation of mechanical engineering topics of special interest. Prerequisite: consent of the Chair of the Department. Offered upon sufficient demand.

ME 499. Undergraduate Research in Mechanical Engineering.**
Cr. 1-3. Independent study of an advanced topic in mechanical engineering. This course may be repeated for additional credit. Available by invitation only. Prerequisite: Approval by the Mechanical Engineering Department.

College of Nursing

Janet M. Brown, Ph.D., Dean

Professor Brown; Associate Professors T. Kessler, Mauk, Pepe; Assistant Professors Hersberger, Koch, Schmidt, Strahm, Zentz; Lecturer Alverson.

The College offers a four year curriculum leading to the Bachelor of Science in Nursing degree.

The College also admits transfer students and registered nurses who want to earn a baccalaureate degree. Registered nurses, accelerated, and transfer students may complete the requirements for the Bachelor of Science in Nursing degree in less than four years. RN students enrolled in the RN-MSN option may complete the BSN and MSN degree in less than three years. Acceptable transfer credit hours from another college or university and credit by examination may be applied toward required and elective credit hours. The transitional courses, NUR 275, is required for registered nurses. The BSN, accelerated BSN, RN-BSN, and RN-MSN plans of study are in Valparaiso University’s Academic Guide.

Mission. The College prepares critically inquiring, competent professional nurses who embrace truth and learning and who respect Christian values while promoting health for persons in dynamic health care environments.

Purpose and Objectives. The purpose of the College of Nursing is to prepare beginning and advanced professionals of nursing and to provide an educational base for graduate study based on professional standards. The BSN graduate will:
1. Enter the profession as a critically inquiring competent professional nurse who uses the processes of critical thinking, communication, change, and lifelong learning.
2. Engage in the role components of provider of care, teacher, manager, and research consumer wherever persons live, work, play, and/or worship.
3. Appreciate how the environmental influences of culture, economics, ethics, law, politics, and technology impact a person’s health.

In accordance with the philosophy of Valparaiso University, the faculty of the College believes its responsibility is to foster intellectual,
College of Nursing

emotional and spiritual growth of the student as an educated person and as a competent professional nurse. The curriculum, therefore, includes a wide variety of foundation courses in the natural and social sciences and the liberal arts as well as courses related to the principles and practice of nursing. Permeating the curriculum is cultivation of the spirit of the University’s Christian tradition in the student’s quest for excellence in all areas of personal and professional life.

Graduation Requirements. In order to realize its objectives, the College holds the students to the following requirements:

**A. Nursing.** A minimum of 63 credit hours in nursing. Courses in which the student is required to earn a grade of C (2.0) or better are:

- **NUR 201** Professional Role in Nursing 3 Cr.
- **NUR 203** Health Assessment 3 Cr.
- **NUR 210** Therapeutic Interventions for the Professional Nurse 4 Cr.
- **NUR 212** Introduction to Community-Based Nursing and Health Promotion 3 Cr.
- **NUR 318** Global Health Issues 3 Cr.
- **NUR 325** Nursing Care of the Childbearing Family 5 Cr.
- **NUR 341** Psychiatric Mental Health Nursing 3 Cr.
- **NUR 351** The Aging Process 3 Cr.
- **NUR 354** Nursing Care of Adults I 5 Cr.
- **NUR 356** Nursing Care of Adults II 5 Cr.
- **NUR 416** Introduction to Nursing Research 3 Cr.
- **NUR 425** Nursing Care of the Childbearing Family 5 Cr.
- **NUR 458** Complex Health Care Needs of Adults 4 Cr.
- **NUR 460** Public Health Nursing 5 Cr.
- **NUR 470** Management and Leadership Strategies for the Professional Nurse 3 Cr.
- **NUR 480** Professional Role Practicum 4 Cr.

**B. Arts and Sciences.** A minimum of 51 credit hours from the College of Arts and Sciences is required. Courses in which the student is required to earn a grade of C (2.0) or better are marked with an asterisk *. The specific requirements are:

**CORE 110** The Human Experience I 5 Cr.
**CORE 115** The Human Experience II 5 Cr.
**ENGL 200** Literary Studies 3 Cr.
**THEO Foundational Level Course** 3 Cr.
**THEO Upper Level Course** 3 Cr.
**Academic Area Studies Elective** 3 Cr.
**PE 101-105** 1 Cr.
**CHEM 111, 121, or 131** General Chemistry* 4 Cr.
**BIO 151 and 152** Human Biology* 8 Cr.
**BIO 210** Microbiology* 3 Cr.
**BIO 260** Human Nutrition 3 Cr.
**PSY 110** General Psychology* 3 Cr.
**PSY 201** Statistical Methods* 3 Cr.
**PSY 330** Child and Adolescent Development* 3 Cr.

The Academic Area Studies requirement must be met through one of the areas listed above.

**Fine Arts or Fine Arts-Literature Foreign Language 102 or 103 Global Cultures and Perspectives (in addition to NUR 318).**

- **Philosophical and Historical Studies Social Analysis** U.S. Cultural Diversity
- **C. Electives.** In addition to meeting the requirements in Nursing and Arts and Sciences listed previously, the student must present for graduation a sufficient number of electives to bring the total number of credit hours to 126. No more than 6 credits may be baccalaureate nursing credits.

**Note:** No more than four credit hours in applied music, including ensemble, and no more than four credit hours of PE 101-149 may be applied toward a Bachelor of Science in Nursing degree.

**D. Requirements for Admission to the College of Nursing.** Freshman students who have declared nursing as a major will be designated as 'pre-nursing' students in the College of Arts and Sciences. These students will have College of Nursing faculty as advisers who will continue to be their advisers after admission into the nursing program.

All pre-nursing students who have sophomore standing with a minimum cumulative grade point average of 2.5 and no grade lower than C (2.0) in the courses designated in section B (*) of graduation requirements will be admitted into the College of Nursing.

- The minimum criteria for admission into the Accelerated Bachelor of Science in Nursing option is a cumulative 3.0 grade point average in previous college coursework, completion of all science prerequisite courses, and a minimum of 60 transfer credits.

**Associate degree and diploma graduates are eligible for admission to the RN-BSN degree option if they are licensed as a registered nurse in Indiana. Registered nurses are eligible for admission to the RN-MSN option if they have a 3.0 grade point average in at least 51 credits or prerequisite course work.**

**E. Progression.** Students are required to present annually, beginning in NUR 203, evidence of a recent (within the year) physical examination, current immunization (rubella and HBV included), rubella titer, Mantoux test and current CPR certification or recertification. The College of Nursing does not make arrangements for meeting these requirements. Students must maintain a minimum cumulative grade point average of 2.50 in all course work and 2.50 in the required nursing courses in the nursing major to remain in the College of Nursing. Students must earn a grade of C (2.0) or better in courses designated in sections A and B (*) of Graduation Requirements.

Dismissal from the College of Nursing occurs when a student earns a grade of less than 2.0 in any two of the following courses: required for a nursing major, BIO 151, BIO 152, BIO 210, and CHEM 111. No nursing course may be repeated more than once.

All nursing students are required to take a series of evaluative achievement tests throughout their nursing coursework. The fee is currently $350 payable when registered for NUR 201, but is subject to change.

**Minor.** A nursing student may declare a minor in another college provided that no more than six credit hours of courses required for the nursing major are used in fulfilling requirements of the minor. The minor is noted on the student's academic record.

**Student Nurses Association.** All student nurses are invited to join the Student Nurses Association.

**Sigma Theta Tau International.** Students who have completed at least one-half of the required nursing courses and who have demonstrated superior scholastic achievement and evidence of professional leadership potential may be elected to membership in this international honor society of nursing. The Zeta Epsilon Chapter was installed at Valparaiso University in 1982.

**Commission on Collegiate Nursing Education (CCNE).** The College of Nursing is accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC, 20036-1120; phone 202.887.6791; www.aacn.nche.edu.

- **Note:** Prerequisites for the following courses are those listed under Requirements for Admission to Nursing Courses and at least sophomore standing, which includes completion of BIO 151, BIO 152, and CHEM 111, and a cumulative grade point average of 2.50 or above.

**NUR 201. Professional Role in Nursing.** Cr. 3. An overview of professional nursing practice, analyzing the concepts of person, health, nursing, and environment. Explores the expanding role of the professional nurse including provider of care, teacher, manager, and research consumer. Students develop communication skills used in professional nursing.

**NUR 203. Health Assessment.** 1+2 Cr. 3. Clinical practice in assessment skills of persons across the life-span. Emphasis is placed on those communication and psychomotor techniques that are fundamental for an organized and comprehensive health assessment relating to the nursing process.

**NUR 210. Therapeutic Interventions for the Professional Nurse.** 2+2 Cr. 4. An introduction to the concepts and principles of therapeutic and pharmacological interventions applied by the professional nurse in a dynamic health care environment. Prerequisites: NUR 201 and 203.

**NUR 212. Introduction to Community-Based Nursing and Health Promotion.** 2.5+1.5 Cr. 3. Focuses on health promotion and the influence of diversity among persons living within the United States. This course is open to all university students with a sophomore standing or above and could be of benefit to students considering careers in theology, psychology, church work, social work, medicine, occupational or physical therapies. A service learning component is included that will provide experiences in interfaith community-based health promotion activities. This course may be used to fulfill the U.S. Diversity component of the General Education Requirements.

**NUR 275. Transition to Professional Nursing.** Cr. 4. Concepts relevant to professional nursing are discussed and applied. Explores the expanding role of the professional nurse including provider of care, teacher, manager, and research consumer while emphasizing the process of communication, critical thinking, change, and lifelong learning. Prerequisite: RN licensure in Indiana.
College of Nursing

NUR 356. Nursing Care of Adults II.
Cr. 3+2. Expands on the development of professional nursing practice with adults experiencing acute and chronic changes in health. Emphasis is placed on meeting the health needs of these adults and their families in a variety of environments at all levels of prevention. Prerequisite: NUR 354.

NUR 381. Cooperative Education in Nursing.
Cr. 1-3. Application of the concepts of professional nursing in a healthcare setting. Requires satisfactory work performance for preselected employer and submission of a final project. Prerequisite: NUR 210 and approval of the Dean. May be taken on SU basis.

NUR 390/490. Topics in Nursing and Health Care.
Cr. 1-3. An open topic course which may cover specialized areas of nursing, current concepts, nursing concerns of delivery of health services. The course may be taken more than once for a maximum of six credit hours provided there is not duplication of topics. Prerequisites: determined by the instructor. Selected topics offered to non-nursing majors. May be taken on the SU grade basis.

NUR 395/495. Independent Study in Nursing.
Cr. 1-6. Independent study of a selected topic. Prerequisite: determined by the instructor. May be taken on SU basis. Prerequisite: approval of the Dean of the College.

NUR 415. Introduction to Nursing Research.
Cr. 3. An overview of scientific research as applied to nursing and the role of the professional nurse as a research consumer. The course includes the study of the research process and implications of findings for evidenced-based nursing practice.

Cr. 3. Students explore approaches to healing and health used by various world cultures and considered alternative to traditional Western medicine. Emphasis is placed on the philosophical, theological, and cultural foundations of these healing strategies. Research and health policy issues associated with these approaches are also discussed. Prerequisite: sophomore standing. Open to all students. Fulfills Global Cultures and Perspectives requirement.

NUR 425. Nursing Care of the Childbearing Family.
Cr. 3+2. The study and practice of professional nursing care of children in a variety of settings. Using a family-centered approach, students engage with children and their families at all levels of prevention.

NUR 452/552. Introduction to Case Management.
Cr. 3. An introduction to case management in healthcare. Content includes the role of the case manager, models of case management, the case management process, standards of practice, and outcome management. A field experience with a case manager in an acute care setting is required (8 hours). Prerequisite: senior standing.

NUR 454/554. Integrating Case Management into Practice.
Cr. 3. A study of the knowledge and skills necessary to implement the case manager role along the continuum of care. Community resources, the assessment of client support systems, reimbursement systems, cost analysis, networking knowledge, legislative and policy issues, and certification requirements are addressed. A field experience with a case manager in a non-acute care setting is required (8 hours). Prerequisite: NUR 452.

NUR 458. Complex Health Care Needs of Adults.
Cr. 2.5+1.5. This course focuses on the application of professional nursing interventions necessary to care for adults experiencing complex health needs. Emphasis is placed on meeting the multiple requirements of these adults and their families in rehabilitation and critical care settings.

NUR 460. Public Health Nursing.
Cr. 3+2. Focuses on the roles of the community health nurse in providing care at all levels of prevention to individuals, families, and aggregates at home and in other community settings. Emphasis is placed on the synthesis of knowledge in nursing, public health, humanities, and sciences as students apply the nursing process to promote and preserve the health of a community and its members. Students will have the opportunity to explore the role of the community health nurse as a member of an interdisciplinary health care team.

Cr. 3. An overview of management and leadership theories as applied by professional nurses in health care environments. Organizational, fiscal, and marketing concepts related to health care delivery are explored. Synthesis of the role components of the professional nurse and strategies for managing a career are emphasized.

NUR 480. Professional Role Practicum.
Cr. 4. A course which facilitates the transition from student to beginning professional nurse. Within a clinical setting, students integrate knowledge from nursing and the arts and sciences to assist persons to achieve health. Only offered on SU basis.

NUR 325. Nursing Care of the Childbearing Family.
Cr. 3+2. The study and practice of professional nursing care of women and their families from a nursing perspective. This course is open to all university students with sophomore standing or above. May be used to fulfill the Global Cultures and Perspectives requirement.

Cr. 3+2. This course examines the responses of adults of all ages and their families to health problems and treatment.

NUR 322. Women and Their Health.
Cr. 3. The study of women's health with a scope beyond childbearing and childrearing that promotes a comprehensive view of the health care needs of women. Health concerns of women are examined both within the medical model and a self-help framework. Emphasis is placed on the promotion and support of women's involvement in decision making and responsibilities for their health. No prerequisites. Open to all students. May be counted for the Gender Studies Minor.

NUR 341. Psychiatric Mental Health Nursing.
Cr. 3+2. The application of psychiatric mental health nursing principles in the care of persons who have been impacted by psychiatric disturbances. Using psychologiological and behavioral theories and therapeutic communication skills, emphasis is placed on the promotion of optimal mental health functioning for individuals, families, and communities.

Cr. 3. An introduction to the theories and various dimensions of aging. Normal biological aging and health issues facing the elderly will be explored. Attitudes and expectations about aging will be discussed. Service learning activities will promote a holistic understanding of the aging process. This course is open to all university students, sophomore standing and above is recommended. Includes a service learning component.

NUR 354. Nursing Care of Adults I.
Cr. 3+2. Concentrates on the development of professional nursing practice with adults experiencing acute and chronic changes in health. Emphasis is placed on meeting the health needs of these adults and their families in a variety of environments at all levels of prevention.

NUR 210 and a cumulative and nursing grade point average of 2.5 or above.

Note: Prerequisites for the following courses are NUR 201, 203, 210, and 212; BIO 210 and a cumulative and nursing grade point average of 2.5 or above.

Course Offering for Previous Curricular Plans

Summer 2003
The following courses will be offered for the last time in Summer 2003.

NUR 206. Professional Role in Nursing.
Cr. 3. Introduction of person, health, nursing and environment and their interrelationship as the basis for nursing practice. Examines the expanding role of the nurse including caregiver, teacher, researcher, manager, and lifelong learner. Explores the interpersonal skills used in the provision of health care.

NUR 206. Health Assessment.
Cr. 1-3. Clinical practice in assessment skills of interview, inspection, palpation, percussion and auscultation of the healthy adult. Emphasis is placed on utilizing techniques that assist in an organized and comprehensive health assessment and relating it to the nursing process.

NUR 207. Clinical Application of the Professional Role.
Cr. 2-5. Clinical application of concepts relevant to professional nursing. Focus is on the use of the nursing process and its framework for assessment, planning, implementing, and evaluating clinical phenomena and the nursing role as caregiver, manager, teacher, researcher, and lifelong learner. Prerequisite: NUR 205 and 206.

NUR 209. Primary Prevention for Individual, Family, and Community Health.
Cr. 2.5+1.5. Concepts of health promotion and illness prevention are emphasized as they relate to individuals, families, and communities. Prerequisite: NUR 205 and 206.

Fall 2003
The following courses will be offered for the last time in Fall 2003.

Cr. 3. Provides the student with the opportunity to explore economic, social, ethical, legal, cultural, political, and technological issues in health care from a global perspective. The course will include a comparative analysis of selected health care delivery systems from around the world. This course is open to all university students with sophomore standing or above. May be used to fulfill the Global Cultures and Perspectives requirement.

NUR 390/490. Topics in Nursing and Health Care.
Cr. 1-3. An open topic course which may cover specialized areas of nursing, current concepts, nursing concerns of delivery of health services. The course may be taken more than once for a maximum of six credit hours provided there is not duplication of topics. Prerequisites: determined by the instructor. Selected topics offered to non-nursing majors. May be taken on the SU grade basis.

NUR 395/495. Independent Study in Nursing.
Cr. 1-6. Independent study of a selected topic. Prerequisite: determined by the instructor. May be taken on SU basis. Prerequisite: approval of the Dean of the College.

Note: Prerequisites for the following courses are NUR 325, 341, 354, 356 (or 275) and a cumulative and nursing grade point average of 2.5 or above.

NUR 400. Public Health Nursing.
Cr. 3+2. Focuses on the roles of the community health nurse in providing care at all levels of prevention to individuals, families, and aggregates at home and in other community settings. Emphasis is placed on the synthesis of knowledge in nursing, public health, humanities, and sciences as students apply the nursing process to promote and preserve the health of a community and its members. Students will have the opportunity to explore the role of the community health nurse as a member of an interdisciplinary health care team.

Cr. 3. An overview of management and leadership theories as applied by professional nurses in health care environments. Organizational, fiscal, and marketing concepts related to health care delivery are explored. Synthesis of the role components of the professional nurse and strategies for managing a career are emphasized.

College of Nursing
NUR 340. Secondary Prevention in Psychiatric/Mental Health Nursing
3+3, Cr. 4. Study and practice in the nursing care of clients experiencing psychiatric disturbance with an emphasis on early diagnosis and treatment.

SPRING 2004
The following course will be offered for the last time in Spring 2004.

3+6, Cr. 5. Study and practice of the nursing care of families in a secondary care setting. Emphasis is placed on responses to childbirth, pediatric illness, and treatment.

FALL 2004
The following courses will be offered for the last time in Fall 2004.

Cr. 3. An introduction to dimensions of aging with special emphasis on biologic aging and the developmental, functional, and environmental factors that influence adaptability to age-related changes. Prerequisite: sophomore standing. Open to all students.

NUR 415. Introduction to Nursing Research.
Cr. 3. A study of the use of empirical research as applied to nursing. An overview of the scientific method, the purpose of research, research problems, and approaches to solving research problems are examined.

NUR 420. Secondary Prevention for Adult Health II.
3+3, Cr. 4. A continuation of the study and practice of nursing care for young, middle, and long-lived adults and their families experiencing complex health problems.

SPRING 2005
The following courses will be offered for the last time in Spring 2005.

Cr. 3. Study of the family at risk. The course focuses on the care of children with long-term health problems, special needs, or life-threatening illness, legal and ethical issues of reproductive health care, and psychosocial problems of women and families.

NUR 435. Tertiary Prevention for the Adult/Long Lived Adult.
3+3, Cr. 4. Study and practice of rehabilitation and gerontological nursing. Emphasis is on tertiary prevention for adults who have long-term health alterations. Field Trip.

NUR 440. Tertiary Prevention in Psychiatric/Mental Health Nursing.
Cr. 2. Study of the nursing care of clients experiencing severe and persistent psychiatric disturbances. Emphasis is placed on promoting the optimal level of function. May be taken concurrently with NUR 340 with Dean's approval.

SUMMER 2005
The following courses will be offered for the last time in Summer 2005.

Cr. 3. Presents an overview of the health care delivery system in the United States and the professional role within that system. The impact of social and political events on the health care system is examined including health policy, personnel, financing, federal and state legislation, the political process, and racial and cultural diversity. No prerequisites. Open to all students with at least sophomore standing. Fulfills social analysis and U.S. Cultural Diversity requirement.

NUR 410. Tertiary Prevention in the Community.
3+4.5, Cr. 5. Current issues and trends in home care, public health, school health, and occupational health are examined as they relate to community health nursing. Community assessment and epidemiological concepts provide the basis for identifying populations at risk. Comprehensive health care is provided to clients/families/groups in a variety of community settings with an emphasis on tertiary prevention.

NUR 450. Nursing Management in a Health Care System.
Cr. 3. An overview of management theories and roles as applied by a nurse manager in a health care setting. Issues relevant to socialization of the student into the professional role of the nurse are discussed.

NUR 480. Professional Role Practicum.
0+12, Cr. 4. Focuses on role transition from student to professional nurse facilitating synthesis of knowledge and experience in a clinical setting. Students are required to take the NLN Comprehensive Nursing Achievement Test (minimum satisfactory score is 136) and the NLN Comprehensive Nursing Achievement Test for Baccalaureate Nursing Students at the College of Nursing before graduation. Fee $100.00 (includes Kaplan Diagnostic Test). An NCLEX Review course is required if a score of 136 is not achieved on the NLN-CAT on the first attempt. Prerequisite: satisfactory completion of all required nursing courses. Corequisite NUR 420 or 450. Only offered on S/U basis.

INTERDISCIPLINARY PROGRAMS

The University encourages cooperation among the various branches of learning and is pleased to announce these programs which are designed to enhance the student's major area of study. These interdisciplinary minors may be presented in partial fulfillment of the Major Field Requirements for the Bachelor of Arts degree (see page 45).

Restrictions. No more than two courses for these minors may overlap with other requirements whether within general education or within courses in any majors or other minors, except for the College of Engineering and the College of Business Administration.

Applied Statistics Minor

Administrative Committee:
Professor Ozgur (Information and Decision Sciences); Associate Professors Hull (Mathematics and Computer Science, Chair), Singleton (Economics), Strasser (Information and Decision Sciences).

Objectives. The applied statistics minor utilizes an interdisciplinary perspective to develop the student's ability to perform statistical analysis. The impact of statistics profoundly affects society today. Statistical tables, survey results, and the language of probability are used with increasing frequency by the media. Statistics also has a strong influence on physical sciences, social sciences, engineering, business, and industry. The improvements in computer technology make it easier than ever to use statistical methods and to manipulate massive amounts of data. This minor will prepare students to analyze data in their professional work. In addition, it will also provide background for those students who intend to pursue work in applied disciplines.

Administration. This minor is jointly administered by the College of Arts and Sciences and the College of Business Administration.

Requirements. A minimum of 15 credit hours is required to complete this minor. Students who intend to complete this minor are strongly encouraged to consult their academic advisor before they begin their junior year. Depending on their major, students are
Environmental Studies Minor

Administrative Committee: Professors Arkekin (Psychology), Janke (Geography and Meteorology); Associate Professors Aljohbe (Civil Engineering), Eberhart (Biology, Chair), Shingleton (Economics); Assistant Professor Luther (Mathematics and Computer Science).

Objective. This minor will broaden the experiences of students with traditional majors in the College of Arts and Sciences by exposing them to approaches used by various disciplines and sectors of society that are attempting to solve complex environmental problems.

Requirements. A total of 16 credit hours is required to complete this minor.

General Education
For non-science majors the General Education requirements for a natural science should be fulfilled with at least:

- BIO 172 Diversity of Life 4 Cr.
- CHEM 111 Introduction to Chemistry 4 Cr.
- GEO 104 Geomorphology 4 Cr.

Required Courses
- BIO 250 Human Environmental Biology or GEO 260 Environmental Conservation 3 Cr.
- ECON 210 Environmental Economics and Policy 3 Cr.
- PHIL 230 Environmental Philosophy and Ethics 3 Cr.
- One of the following 3 Cr.
- ENGL 365 Topics: Environmental Literature
- GEO 210 Topics: Human Impacts on the Environment
- GEO 210 Topics: National Parks

Elective Courses
- ENVS 499 Colloquium on Environmental Management 1 Cr.

Ethnic Studies Minor

Administrative Committee: Professors Berg (History), Janke (Geography and Meteorology); Associate Professors Venturelli (Sociology), Walton (Social Work, Chair).

Objectives. The Ethnic Studies minor offers an interdisciplinary perspective on race, ethnicity, and culture, specializing on the nature of historical and social constructs that define group and individual experiences, attitudes, and identities. The focus of the minor will be on the following North American ethnic groups: African-American, Chicano/Latino, Native American, and Asian-American. The objectives of the minor have two complementary components. One, more narrowly academic, aims at helping students develop critical thinking using a multicultural perspective with reference to their own backgrounds and those of others, and with materials from within and without the traditional canon. The other, more social and experiential, involves becoming familiar with and appreciating diversity among students and the larger community. Both aim at providing knowledge and understanding which will help students reach across racial and cultural barriers and equip them to function effectively, both professionally and personally, in a multicultural and multiracial world.

Requirements. A minimum of 15 credit hours constitutes the minor.

Program Core
- HIST 225 Alternative Perspectives of United States History: Racial Minorities and Mainstream America or ENGL 365 American Ethnic Literature 3 Cr.

Elective Courses
- ENCON 233 Economics of Race and Gender 3 Cr.
- ENGL 365 Film by American Women (designated sections) 3 Cr.
- GEO 200 American Ethnic Geography 3 Cr.

Film Studies Minor

Administrative Committee: Professors Byrne (English), Junega (English, Spanish, English, Tost) (Political Science, Chair); Associate Professors Kennedy (Philosophy), Morgan (Christ College).

Objectives. The film studies minor offers an opportunity to discover the place and significance of an important twentieth century art which has also been a social force. Film can be studied for its artistry, its historical development, its influence on human perceptions of the world and its relation to such subjects as national cultures, technology, politics, mass media, theater and religion. The minor in Film Studies allows the small scale but concentrated study of one important art, and through it, modern times.

Requirements. At least 15 credit hours in film studies courses constitute a minor. The requirements include:

- ENGL 231 Film Aesthetics 3 Cr.
- At least one course from each of the following three areas 9 Cr.
  - Film and Literature
  - Film and Society
  - History of Film
A second course from one of these three areas may be counted toward the minor. Other options include a special topics course (e.g., Film and Religion) approved by the Chair of the Committee.

**Film and Literature Area.** Offered by the Department of English and the Department of Foreign Languages and Literatures: ENGL390, FLF 250, FLGR 250, FLS 250. These are special topics courses which from time to time offer appropriate topics, such as Shakespeare on Film, The Novel and Film, Storytelling in Film and Literature. These courses scrutinize both similarities and differences in the handling of a theme and show how literary analysis may be used in understanding the cinema.

**Film and Society Area.** Offered by the Department of History and the Department of Political Science: HIST 393, POLS 490 (Film and Politics). These courses consider film from the viewpoint of the historian and the social scientist, emphasizing the use of social-historical themes in film and the effect of film on society and history.

**History of Film Area.** Offered by the Department of Foreign Languages and Literatures, the Department of History and Christ College: FLGR 260, HIST 390, CC 300. Topics such as History of the German Film, History of the American Film and Film in Asia are offered. These courses consider the historical development of film art and the film industry in the context of one or more national traditions of cinema.

### Gender Studies Minor

**Administrative Committee:**
- Professor Dooley (Law), J. Moore (Theology), Rubchak (History);
- Associate Professors Corazzo (Art), Sandock (English), Shingleton (Economics), van Doorn-Harder (Theology);
- Assistant Professors Bond (English), Burow-Flak (English), Seguin (History), Leeb (Theology).

**Objectives.** The Gender Studies minor offers an interdisciplinary perspective on the lives of women and men, especially on the nature of social and cultural constructs that give meaning to the biological difference of sex.

The fact that persons are male and female takes on a complex of meaning that can be explored through study of literature and the arts, religion, history, society and social institutions, the professions, human psychology and development, and life sciences. This program, by including courses that study women in culture, society, and history, and that include the best of a growing body of feminist theory and research, also intends to help correct a tradition of scholarship and teaching that has ignored the contributions and concerns of women. Overall, the program will give both men and women a better sense of identity and possibility, and will foster greater understanding of the complex ways in which we, for good and for ill, are influenced by culture and society.

**Requirements.** A minimum of 15 credit hours (normally five courses) constitutes a minor. Each student must take GNST 201, Introduction to Gender Studies, plus one course in social or life sciences and one course in the humanities or fine arts. The remainder of the program (normally two courses) are elective. All courses should be chosen from a list of courses approved each year by the committee. Regularly offered courses approved by the committee include:

**Core Requirement**

- **GNST 201 Introduction to Gender Studies.** 3 Cr.

**Social and Life Sciences**

- **ECON 233 Economics of Race and Gender.** 3 Cr.
- **PSY 390 Topics (when appropriate).** 3 Cr.
- **SOCW 390 Colloquium (when appropriate).** 3 Cr.
- **SOC 220 The Family.** 3 Cr.
- **NUR 322 Women and Their Health.** 3 Cr.

**Humanities and Fine Arts**

- **ART 311 Art History and Feminism.** 3 Cr.
- **ART 318 Nineteenth Century European Art.** 3 Cr.
- **ENGL 390 Topics (when appropriate).** 3 Cr.
- **HIST 316 The Great Witchcraft Delusion.** 3 Cr.
- **THEO 317 The New Testament in Its Cultural Environment.** 3 Cr.
- **THEO 328 History of Women in the Church.** 3 Cr.
- **CC 300 Love and Friendship.** 3 Cr.
- **CC 300 Inventing the Body.** 3 Cr.

**GNST 201. Introduction to Gender Studies.** Cr. 3. An introductory course exploring the issues in gender construction within our society together with the ways that gender issues have affected the various disciplines within the university. This course is intended to introduce the student to the gender studies minor as a foundation for studying the issues related to gender in the other courses included in the minor.

Many additional courses for the minor will be offered as topics courses and departmental seminars, each of which must be approved and will be publicized by the administrative committee each year. Students wishing to use a course not listed above must have the course approved by the administrative committee prior to enrolling in the course.

### Human Aging Minor

**Administrative Committee:**
- Professor Truemper (Theology); Associate Professors G. Evans (Biology), Nelson (Psychology), Pepa (Nursing, Chair), Walton (Social Work).

**Objectives.** The Human Aging minor offers an interdisciplinary perspective on the nature of the aging process and the needs of older adults. Aging involves a complex set of changes that involve biological and psychological processes, as well as the role of the older individual in society. The premise of the program is that these changes are best understood and explored in an interdisciplinary context. As the average human life-span grows longer and the proportion of elderly people in our country increases, study in human aging will become very important to those seeking to understand and render service to our society. Individuals interested in careers in the biomedical or social sciences who are interested in working with older adults will find this minor to be an essential part of their preparation.

**Requirements.** A minimum of 18 credit hours constitutes a minor. In addition to the core program courses, at least two elective classes (6 credit hours) must also be taken. Acceptable elective classes include the courses listed on the Elective Courses list. Other University classes such as experiential learning and special topics courses may also be allowed as elective classes if they are deemed by the Administrative Committee to have a primary focus on issues related to human aging. Students wishing to use a course not listed on the Elective Courses list to meet elective requirements for the minor must have the course approved by the Administrative Committee prior to enrolling in the course. Examples of classes which may qualify include PSY 486 (Psychology Practicum), SOCW 390 (Social Work Colloquium), and SOC 398 (Internship in Sociology).

### Liberal Arts Business Minor

**Administrative Committee:**
- Associate Professor Pirie (Finance, Co-Chair), David Schroeder (Information and Decision Sciences), Singleton (Economics), Stieger (Physical Education, Co-Chair).

**Objective.** The objective of the Liberal Arts Business Minor is to introduce nonbusiness majors to the functional areas of business administration. This program is especially appropriate for students who plan to enter the job market after graduation with a traditional major from the College of Arts and Sciences.

**Required Courses**

- **ECON 221 Economics - Micro.** 3 Cr.
- **ENGL 300 Introduction to Professional Writing.** 3 Cr.
- **ACC 206 Managerial Accounting.** 3 Cr.
- **ECON 222 Economics - Macro.** 3 Cr.
- **ACC 205 Financial Accounting.** 3 Cr.
- **BLLW 104 Legal Environment of Business.** 3 Cr.
- **FIN 304 Financial Management.** 3 Cr.
- **MGT 304 Management and Organizational Behavior.** 3 Cr.
- **MKT 304 Marketing Management.** 3 Cr.

Arts and Sciences students who are considering the possibility of becoming Business Majors must take the prerequisite courses in mathematics, statistics, etc., in order to qualify for admission to the College of Business Administration.

Students who intend to complete the Liberal Arts Business Minor are strongly encouraged to consult with the office of the Dean of the College of Arts and Sciences to obtain proper advising.
Interdisciplinary Programs

The 15-18 credits earned in the courses offered by the College of Business Administration may be applied toward the 124 required for graduation with a Bachelor's degree in the College of Arts and Sciences (see page 49). Upon completion of the minor, the designation, "Liberal Arts Business Minor," is placed on the student's transcript.

Manufacturing Management Minor

Administrative Committee: Professors Ozgur (Information and Decision Sciences, Co-Chair), Schoech (Mechanical Engineering, Co-Chair), Associate Professor Strasser (Information and Decision Sciences); Assistant Professor Stone (Mechanical Engineering).

Objectives. This interdisciplinary minor program is designed to provide the opportunity for students to focus their study in manufacturing planning and control. It prepares students for entry level positions in manufacturing and the related areas of quality control, product design and development, production system design, and production scheduling and control. It complements a student's major area of study in engineering, business, mathematics, computer science, or other disciplines.

Administration. This minor is jointly administered by the College of Engineering and the College of Business Administration.

Requirements. A total of 16 credit hours is required to complete this minor. Students who intend to complete this minor are strongly encouraged to consult their academic adviser and a member of the minor administrative committee before they begin their junior year. A cumulative grade point average of 2.00 or better in the minor is required to earn this minor.

Peace and Social Justice Studies Minor

Administrative Committee: Professors Baas (Political Science, Chair), Ludwig (Theology); Associate Professor Kingsland (Political Science), Assistant Professors Ringenberg (Social Work), Winquist (Psychology); Adjunct Assistant Professor Yogan (Sociology).

Objectives. Valparaiso University nurtures a community whose members learn to embody social responsibility. The community challenges its members to discover ways of using their abilities in the service of the whole human family. The Peace and Social Justice Studies Minor is an interdisciplinary program focusing on social responsibility by examining the means of establishing justice, achieving peace, and resolving conflicts nonviolently. Peace rooted in justice requires the nurturing of a culture of peace in homes, schools, communities, religious institutions, nations, and across the world. Peace rooted in justice requires teaching peace and social justice to cultivate those who will become socially responsible leaders.

Requirements. A minimum of 15 credit hours (usually five courses) is required for this minor. Each student must take PSJ 201, PSJ 386, and three courses (9 credits) appropriate to the chosen track with no more than two courses from specified General Electives. No more than two courses from either track or general electives can be taken from a single department. No more than one course at the 100 level can be taken as an elective.

There are two interrelated tracks in the program. The International/Global Track concentrates on social responsibility between nations and other large groups, while the Individual/Local Track focuses on social responsibility among individuals, small groups and communities.

Program Core (Required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSJ 201</td>
<td>Principles of Peace and Social Justice</td>
</tr>
<tr>
<td>PSJ 386</td>
<td>Internship in Peace and Social Justice Studies</td>
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International/Global Track

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HIST 331</td>
<td>Ideas and Power in Latin American History</td>
</tr>
<tr>
<td>HIST 350</td>
<td>Colonialism and Independence: Understanding Modern Africa</td>
</tr>
<tr>
<td>HIST 358</td>
<td>Modern Middle Eastern History</td>
</tr>
<tr>
<td>POLS 230</td>
<td>International Relations</td>
</tr>
<tr>
<td>THEO 338</td>
<td>Holocaust Theology</td>
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<tr>
<td>THEO 357</td>
<td>The Church in the World</td>
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<tr>
<td>THEO 359</td>
<td>Topics in the History of Religions</td>
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<tr>
<td>THEO 362</td>
<td>Understanding Islamic Religion and Culture</td>
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<tr>
<td>THEO 364</td>
<td>The Buddhist Tradition</td>
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Individual/Local Track

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECON 136</td>
<td>The Economics of Health, Education, and Welfare</td>
</tr>
<tr>
<td>ECON 233</td>
<td>The Economics of Race and Gender</td>
</tr>
<tr>
<td>HIST 225</td>
<td>Alternative Perspectives of United States History</td>
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<td>HIST 226</td>
<td>The Hispanic U.S.</td>
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<tr>
<td>POLS 340</td>
<td>Constitutional Law</td>
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<tr>
<td>POLS 345</td>
<td>The Judicial Process</td>
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<tr>
<td>SOC 130</td>
<td>The Criminal Justice System</td>
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<tr>
<td>SOC 160</td>
<td>Contemporary Social Problems</td>
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<tr>
<td>SOC 265</td>
<td>Crime and Society</td>
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<tr>
<td>SOC 275</td>
<td>Social Stratification</td>
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<tr>
<td>SOC 347</td>
<td>Race and Ethnicity</td>
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<tr>
<td>SOC 360</td>
<td>Penology</td>
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<tr>
<td>SOC 390</td>
<td>Issues in Sociology (when topic is appropriate)</td>
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<tr>
<td>SOCW 330</td>
<td>Vulnerable Populations: Color, Gender, and Orientation</td>
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<tr>
<td>THEO 320</td>
<td>Topics in Christian History (when topic is appropriate)</td>
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<tr>
<td>THEO 330</td>
<td>Topics in Contemporary Theology (when topic is appropriate)</td>
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<tr>
<td>THEO 337</td>
<td>Black Theology and Black Church</td>
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<tr>
<td>THEO 353</td>
<td>Studies in Theology and Practice</td>
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General Electives

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHIL 250</td>
<td>Political Philosophy</td>
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<tr>
<td>POLS 250</td>
<td>Political Philosophy</td>
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<tr>
<td>POLS 361</td>
<td>Public Policy</td>
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<tr>
<td>POLS 490</td>
<td>Seminar: Mediation and Arbitration</td>
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Interdisciplinary Programs

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSY 125</td>
<td>Social Psychology</td>
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<tr>
<td>PSY 390</td>
<td>Topic: Cross Cultural Psychology</td>
</tr>
<tr>
<td>THEO 318</td>
<td>Jesus and the Gospels</td>
</tr>
<tr>
<td>THEO 346</td>
<td>Contemporary Moral Issues</td>
</tr>
</tbody>
</table>

Several other courses, offered as topics courses and seminars, will be publicized when approved by the administrative committee. A student who wishes to include a course not on the list of electives must obtain the approval of the administrative committee before enrolling in that course.

PSJ 201. Principles of Peace and Social Justice. Cr. 3. This course focuses on social responsibility by examining the means of establishing justice, achieving peace, and resolving conflicts nonviolently. The causes, nature, and processes of conflict are examined. That conflicts are frequently rooted in injustice requires an understanding of the nature of social justice. These injustices may arise from economic, political, sociological, religious, and/ or psychological sources. The nature and methods of nonviolent conflict resolution and reconciliation are also considered. This course is intended to introduce students to the peace and social justice minor as a foundation for studying these issues as they are treated in the other courses included in this program. At the end of this course, students will decide whether they wish to pursue either the International/Global Track or the Individual/Local Track of the program.

PSJ 386. Internship in Peace and Social Justice Studies. Cr. 3. The chair of the minor will assist in arranging an appropriate internship for the track chosen. Prerequisite: Approval of the advising instructor and consent of the program chair.

Political Communication Minor

Administrative Committee: Professors Baas (Political Science, Chair); Associate Professors Kocher (Communication), Neff (Communication).

The Political Communication Minor is a joint program offered through the Departments of Communication and Political Science. The focus is on the electoral process and the role of media in political life. It is intended to address the interests and needs of students considering a career as political reporters, or a career in political life, either as candidates or employees in political organizations. Additionally, it would facilitate the development
Interdisciplinary Programs

of skills necessary for effective political action by citizen participants. Students electing this minor will have access to the Pentium workstation in the Department of Communication, which is available for student projects involving the Internet, as well as access to general campus computing facilities. The global Internet provides excellent resources in political science, communication, and journalism.

Program requirements. A total of 18 credit hours is required for this minor. The required courses are:

**Chicago Urban Semester**

- **GS 338** The Core Course 4 Cr.
- **GS 346** The Seminar 4 Cr.
- **GS 386** The Internship 4 Cr.
- **GS 395** Independent Study 4 Cr.

**Elective Courses**

- **ECON 335** Urban Economic Problems 3 Cr.
- **GEO 320** Urban Geography 3 Cr.
- **GEO 321** Urban and Regional Planning 3 Cr.
- **POLS 220** State and Local Politics 3 Cr.
- **POLS 320** Urban Politics 3 Cr.
- **SOC 325** Urban Sociology 3 Cr.

A student may substitute an appropriate topics course or departmental seminar in place of one of the elective courses listed above, provided the topic has an urban focus and is approved by the chair of the administrative committee prior to the student’s enrolling in the course.

**Urban Semester.** The following courses are offered in a residential program in Chicago in cooperation with the Associated Colleges of the Midwest:

- **GS 338. The Core Course: Public Policy in an Urban Center.**
  - Cr. 4. A survey of three or four important urban policy areas giving special attention to issues being publicly discussed during the current semester. The course relies on presentations by individuals actively involved with the topic at hand, selected to provide different and sometimes contradictory perspectives. The policy areas are selected from among the following: health care, urban politics, neighborhood development, mass transportation, public education and municipal finance. S/U grade.

- **GS 348. The Seminar.**
  - Cr. 4. Each student chooses one urban issue to examine in depth in a seminar involving readings, class discussions and field visits. Topics represent a range of academic disciplines, usually making it possible to select a seminar relating to a major. Recent seminar titles included City Politics, Urban Planning, Arts in the Black Community, Sexism and Racism, The Helping Professions, Dynamics of Urban Housing. Graded A-F.

- **GS 386. The Internship.**
  - Cr. 4. Each student devotes 15 hours per week to an agency which can provide direct involvement in city life and exposure to a particular career environment. The placement is determined jointly by the student and staff during the first week of the semester. A wide range of placements is available. Graded either A-F or S/U at the student’s choice upon entry into the program.

**GS 395. Independent study Project.**

- Cr. 4. Each student pursues one topic from the Chicago experience under the supervision of a faculty member. Some projects grow out of the Internship whereas others are based on another component of the program. The student may elect to write a research paper or a creative piece, or to use photographic or other visual media. Graded A-F.

All sophomores, juniors and seniors at the University are eligible to participate in this program. Students shall be admitted to this program on the recommendation of the Urban Studies Advisory Committee.

Valparaiso University students register at Valparaiso for the Chicago Urban Semester and pay to Valparaiso University the general fee charged of all full-time students. Expenses for travel, meals and lodging are paid directly by the students. Full credit toward graduation is given for all courses taken in the Urban Studies program. The program is offered in both the fall and the spring semesters.

Urban Studies Minor

Administrative Committee: Professors Baas (Political Science), Janke (Geography and Meteorology); Associate Professors Kilpinnen (Geography and Meteorology, Chair), Singleton (Economics); Adjunct Assistant Professor Yogan (Sociology).

Objectives. The Urban Studies Minor provides students with an interdisciplinary consideration of the diverse social, cultural, economic, political, and spatial issues confronting contemporary American cities. The majority of the minor is comprised of an experiential semester in one of America’s largest and most diverse metropolitan areas—Chicago. This program involves living, learning, and working in the city and offers opportunities for students in a wide range of programs, from art to economics to premad. The goal of the minor is to enhance students’ career opportunities, particularly through the internship, while equipping them to contribute meaningfully to public life and discourse.

Requirements. A minimum of 19 credit hours constitutes the minor. Each student must complete the Chicago Urban Semester and one elective course.
The Air Force Reserve Officer Training Corps (ROTC) is an educational program designed to give men and women the opportunity to become an Air Force Officer while completing a degree. The Air Force ROTC Programs develop leadership and management skills that students need to become leaders in the twenty-first century. In return for challenging and rewarding work, the Air Force offers the opportunity for advancement, education, and training, and the sense of pride that comes from serving one's country. Upon completion of the Air Force ROTC program, students are commissioned as second lieutenants in the Air Force. Following commissioning there are excellent opportunities for additional education in a wide variety of academic fields. Valparaiso University has an enrollment agreement with the University of Notre Dame enabling Valparaiso University students to participate in their Air Force ROTC program.

Course numbers ending in 11 are taught during the fall semester; course numbers ending in 12 are taught during the spring semester. Leadership Laboratory is open to students who are members of ROTC or who are eligible to pursue a commission.

**Use of AFROTC Credit Toward Graduation Requirements.** The policy of applying AFROTC credit toward degree requirements varies from college to college. The College of Arts and Sciences will grant up to six (6) credits of AFROTC coursework for free electives only. The College of Business Administration will grant up to six (6) credits of AFROTC coursework for free electives only. The College of Engineering policy varies by major. Civil Engineering will grant six (6) credits of AFROTC coursework toward Career Enhancement Electives. Computer Engineering and Electrical Engineering will grant up to nine (9) credits of AFROTC coursework toward the two professional electives (6 credits) and the free elective (3 credits). Mechanical Engineering will grant up to four (4) credits of AFROTC coursework toward free electives.

The College of Nursing will grant twelve (12) credits of AFROTC coursework toward the 12 elective credits required for the B.S.N. degree.

**AFROTC COURSES**

**AS 111. The Foundations of the U.S. Air Force.**
Cr. 1. A survey course designed to introduce students to the United States Air Force and Air Force ROTC. Featured topics include: mission of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills.

**AS 111L. Leadership Laboratory.**
Cr. 0. A study of Air Force customs and courtesies, drill and ceremonies, and military commands. Also includes studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. S/U grade only.

**AS 112. The Foundations of the U.S. Air Force.**
Cr. 1. Additional study of the organizational structure of the Air Force with emphasis on leadership and communication skills.

**AS 112L. Leadership Laboratory.**
Cr. 0. A study of Air Force customs and courtesies, drill and ceremonies, and military commands. Also includes studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. S/U grade only.

**AS 211. Evolution of U.S. Air Force Air and Space Power.**
Cr. 1. A course designed to examine general aspects of air and space power through a historical perspective, covering a time period from the first balloons and dirigibles through the Korean War and into the Cold War era.

**AS 211L. Leadership Laboratory.**
Cr. 0. Further study of Air Force customs and courtesies, drill and ceremonies, and military commands. Also includes additional emphasis on the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. S/U grade only.

**AS 212. Evolution of U.S. Air Force Air and Space Power.**
Cr. 1. Further study from the Vietnam War to the space age global positioning systems of the Persian Gulf War. Effective communication techniques are also emphasized.

**AS 212L. Leadership Laboratory.**
Cr. 0. Further study of Air Force customs and courtesies, drill and ceremonies, and military commands. Also includes additional emphasis on the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. S/U grade only.

**AS 311. Air Force Leadership Studies.**
Cr. 3. A study of leadership, management fundamentals, professional knowledge, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.

**AS 311L. Leadership Laboratory.**
Cr. 0. Activities classified as leadership and management experiences involving the planning and controlling of military activities of the cadet corps, and the preparation and presentation of briefings and oral and written communication. Also includes interviews, guidance, and information which will increase the understanding, motivation, and performance of other cadets. S/U grade only.

**AS 312. Air Force Leadership Studies.**
Cr. 3. Further study of the Air Force personnel and evaluation systems, leadership ethics and additional communication skills.
GRADUATE DIVISION

David L. Rowland, Ph.D., Dean

The program of graduate studies was initiated by Valparaiso University in 1963 to serve a variety of educational needs, including those of residents of Northwest Indiana and the Great Lakes region. More than 2000 students have received a master’s degree since the inception of this program. Since many of these alumni reside and work in Northern Indiana, the University has, through this program, made a major contribution to the life of the larger community in which it lives.

The following degrees are offered: Master of Arts with concentrations in Counseling and Clinical Mental Health Counseling; Master of Business Administration; Master of Education with concentrations in Initial Teaching Licensure, Teaching and Learning, and Special Education; and Master of Science in Special Education; Education Specialist in School Psychology; Master of Science in Nursing; Master of Science with concentrations in International Commerce and Policy, and Sports Administration; and Master of Arts in Liberal Studies with concentrations in English, Ethics and Values, History, Human Behavior and Society, Theology, Theology and Ministry and U.S. Culture.

The schedule of classes for many programs is structured to meet the needs of part-time and most full-time students. Details about these and other postgraduate non-degree programs may be found in the Graduate Catalog, which may be obtained by contacting the Graduate Division, Valparaiso University (219.464.5313).

The graduate programs are under the general supervision of the Provost and the Faculty of the University. Its policies are defined by the Graduate Council and are administered by the Dean of the Graduate Division.

SCHOOL OF LAW

Jay Conison, J.D., Dean
Bruce Berner, LL.M., LL.B., Associate Dean for Academics
Curtis W. Cichowski, J.D., Associate Dean for Administration

Professors Adams, Berner, Blomquist, Bodensteiner, Breitke, Conison, Dooley, Gaffney, Geisinger, Levinson, Lind, Moskowitz, D. Myers, Potts, Stith, Vance, Vandercoy, Whiton, Yonover; Associate Professors Carter, Huss, Persyn, Straubel; Assistant Professor Stuart; Clinical Faculty Gienapp, Kole, Schmidt, Tegarden, Welter.

In the late 1870s, Valparaiso attorney and Civil War Colonel Mark L. DeMotte decided that the importance of formalized legal education warranted a new department for the study of law at the local college. Convincing the college president that such training was crucial to the quality of legal representation throughout the country, Colonel DeMotte founded in 1879 a program for legal study that would become the Valparaiso University School of Law.

From the beginning, the School of Law graduated new lawyers able to effectively practice law as soon as they joined the bar. This remains true today. By immersing its students in a rigorous program, Valparaiso Law School produces graduates that are successful, respected, and prepared.

The School of Law provides a range of course offerings recognized for its breadth, depth and blend of legal theory and practice. The required curriculum provides a comprehensive and intensive study in the foundations of law, and a wealth of elective courses covering many substantive areas. Course concentrations, clinical programs, externships, and co-curricular organizations introduce students to advanced study in various areas of law and offer meaningful opportunities for innovation and specialization.

By limiting enrollment, the School provides a learning environment where the rigor of legal education can be experienced with the help of careful guidance and support by the extraordinarily accessible faculty. From the classroom to the courtroom to the boardroom, our graduates thrive on the ongoing support of faculty, staff, students and alumni.

Continuously accredited by the American Bar Association since 1929, and the Association of American Law Schools since 1930, the School offers both the Juris Doctor (JD) and Masters in Law (LLM) degrees and dual degrees, JD/MA in Psychology JD/MBA, and JD/MALS.

The JD degree options include the traditional three-year, full-time program; a part-time, five-year program; and an accelerated two and one-half-year program. Unique to the School of Law is the Honors Program, designed to offer a special academic challenge to highly talented students.

The LLM degree is offered through a one-year, full-time program. This particular program is designed primarily for international lawyers who have a law degree from their home country and wish to enhance their understanding of the American legal system.

The dual degrees are four-year programs. The JD application process is separate from the MA and MBA application processes. Application forms for the JD degree are available in the School of Law Admissions Office, Wesemann Hall, 888/825-7652. Applications for the MA and MBA programs are available in the office of Graduate Studies, Kretzmann Hall, 219/464-5313.

Detailed program information about the School of Law and its admissions policies are available from the Admissions Office (1-888-VALPOLAW, or <www.valpo.edu/law>).
SUMMER SESSIONS

The University offers two six-week sessions. Although most courses are six weeks, within each six-week term there are usually a number of specialized courses which are offered in shorter periods of time. These sessions are an integral part of the year-round program of course offerings for both graduate and undergraduate students. They are specifically designed to serve a variety of publics: regular Valparaiso University students accelerating their study, in-service teachers desiring further professional education, visiting students from other colleges earning credit while on summer vacation, junior and senior high school students beginning their college careers early and other interested persons who would like to take coursework toward degree objectives or simply for personal enrichment.

Students may earn a maximum of seven credit hours in each six-week term, or 14 for the entire summer, which is nearly the equivalent of one semester's work. Students enrolled in a two or four-week intensive course may not be simultaneously enrolled for any other course, except by petition.

Courses on the undergraduate and graduate levels are offered in each session in virtually all areas of the College of Arts and Sciences, together with selected undergraduate and graduate courses in the College of Business Administration, the College of Engineering, and the College of Nursing. The Summer Business Program enables students in Arts and Sciences, Nursing, and Engineering to add a Liberal Arts Business Minor to their transcript through one summer of intensive academic coursework.

Each session features a variety of courses in the morning and in the evening to accommodate the student who wishes to take course work while employed full-or part-time. A selection of on-line courses offers maximal flexibility in scheduling and permits students to take coursework with minimal residency on campus. Also offered in the summer for academic credit are several one-week workshops and other abbreviated format courses.

Educational tours, both domestic and international, are regularly offered during the summer. Information regarding tours is normally included in the Summer Session bulletin, as well as in special descriptive brochures.

Valparaiso University features the three-year baccalaureate program which offers students in selected programs the opportunity to complete their degree in three years by careful planning and the utilization of summer sessions. To complete their program as planned, students must apply for participation in the spring of their freshman year to make certain that they have the proper advising. Students should contact their academic adviser or the Office of the Dean of the College of Arts and Sciences for more information.

FEES FOR 2003 SUMMER SESSIONS

Tuition per Credit Hour

<table>
<thead>
<tr>
<th>Level</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$285.00</td>
</tr>
<tr>
<td>Undergraduate Nursing</td>
<td>$520.00</td>
</tr>
<tr>
<td>Graduate</td>
<td>$335.00</td>
</tr>
<tr>
<td>Graduate Nursing</td>
<td>$410.00</td>
</tr>
<tr>
<td>MBA</td>
<td>$495.00</td>
</tr>
<tr>
<td>Private Music Lessons (in addition to tuition) Each private or class lesson in applied music</td>
<td>$300.00</td>
</tr>
</tbody>
</table>

COLLEGE OF ADULT SCHOLARS

The College of Adult Scholars is a special program for highly motivated nontraditional (adult) students starting or returning to college to seek their first degree, or returning to college for further professional training by seeking a second degree or certificate of specialization. The College has its own mission, students, and tuition structure, and although the admission criteria are intended to recognize the special needs and experiences of adult learners, admission to the College is selective. Students in the College may select from nearly all the majors and programs as full-time students, and they may take courses in the evening, daytime, or both. Because of the special tuition rate offered through the College of Adult Scholars, enrollment in certain programs and daytime courses may be restricted. To qualify for the special tuition rate, a student's credit load may not exceed eleven hours during the spring and fall semesters.

Admission and Registration.

Application to the College of Adult Scholars is made through the Office of Continuing Education. Students who meet any one of the four following criteria are eligible to apply for admission: twenty-four years or older; have interrupted their formal education for more than three years; have a baccalaureate degree; or plan to take a Valparaiso University course approved and offered by the College at an offsite location. Applicants who have completed an undergraduate degree or significant prior college coursework (minimum of 30 credits) with a grade point average of 2.0 or higher may be admitted unconditionally. Applicants not meeting these criteria but who show ability and promise for success may be admitted on a conditional basis. College board scores are not required, but students admitted on a conditional basis may be required to take a placement test to establish their qualification for entry into the College. The final decision for admission rests with the Dean of Continuing Education, whose judgement is based on the student's ability to benefit from the program.

Advising and registration of students in the College of Adult Scholars is done through the Office of Continuing Education. Students interested in enrolling in the College should call 219.464.5313 or visit the office in Kretzmann Hall, Room 116.

SAGE PROGRAM

The College of Adult Scholars also enrolls students in the SAGE (Senior Adult Growth through Education) program which allows seniors 60 and older, or 55 and retired, to audit courses for a fraction of the regular tuition cost.
ASSOCIATE OF ARTS DEGREE (61 CR.)

Students in the College of Adult Scholars have the option of pursuing the 61-credit Associate of Arts degree. This degree is particularly appropriate for students who plan to work toward a Bachelor of Arts degree in the College of Arts and Sciences. A student must complete a minimum of 45 credit hours as a College of Adult Scholar student in order to qualify for degree candidacy. Adult scholars who change to full time status with fewer than 45 credits are not eligible for the Associate of Arts degree.

A. General Education Requirements ........... 37-40 Cr.
1. CORE 110 ....... 5 cr.
2. CORE 115 ....... 5 cr.
3. ENGL 200 ....... 3 cr.
4. Foundational Level Theology ....... 3 cr.
5. Fine Arts/Fine Arts-Literature ....... 3 cr.
6. Social Analysis ....... 3 cr.
7. Philosophy/History ....... 3 cr.
8. Diversity: Global or U.S. ....... 0-3 cr.
9. Foreign Language (one) ....... 8 cr.
10. Natural Science (with lab) or Mathematics ....... 4 cr.

As stated on page 103, College of Adult Scholars students who have completed Level I of a foreign language in high school but have not studied that language for at least 6 full years may be allowed to count credit earned for level 101 toward the foreign language requirement. Students opting for a different language from their high school experience begin with course 101 in the new language.

B. Concentrations ........... 21 Cr.
Beyond completing the general education requirements, students elect one of the following concentrations. Coursework used to meet general education requirements for the Associate of Arts degree may not be used to meet concentration requirements.

1. Culture and Humanity ....... 21 cr.
Courses from at least two of the following subjects: English, History, Philosophy, Theology, or Classical Civilization.

2. Social and Behavioral Science ....... 21 cr.
Courses from at least two of the following subjects: Economics, Political Science, Psychology, Sociology, and approved courses in Geography (GEO 101, 102, 200, 210, 274, 301, and approved 490).

C. Electives ....... 0-3 Cr.
0-3 credits of electives, depending on whether the diversity requirement was fulfilled by another course.

D. Other requirements
1. Students must achieve a minimum grade point average of 2.0 both cumulatively in all work at Valparaiso University and in their selected concentration.
2. At least 6 credits in the concentration must be taken at the 200 level or above.
3. Thirty of the last 34 credits for the degree must be completed in residence.
4. Valparaiso University students must complete 45 credits as a student in the College of Adult Scholars program.
5. At least half of the concentration requirements must be completed in residence and as a student in the College of Adult Scholars program.
6. Enrollment in any course requires that the student meet the appropriate prerequisites.

Students who choose to pursue a bachelor's degree must meet all the stated catalog requirements for that degree. For example, for the Bachelor of Arts degree, the following would need to be completed:

1. Upper Level Theology ....... 3 cr.
2. Diversity Requirement: (remaining Global or U.S.) ....... 3 cr.
3. Social Analysis from one other department ....... 3 cr.
4. Natural Science ....... 8 cr.
5. Physical Education 101-105 ....... 1 cr.
6. Major/minor/electives ....... 45 cr.

In meeting the requirements for the bachelors degree, general education courses may be applied toward the student's major(s) or minor(s). Therefore, the number of major or minor elective credits may vary.

Workforce credit transferred from other institutions will be reviewed for equivalency on the same criteria currently used by the College of Arts and Sciences. All coursework for the Associate of Arts degree could be applied toward completion of the Bachelor of Arts degree.

Certificate Programs

Valparaiso University offers certificates in several fields. These stand-alone programs typically range from 15 to 30 credits. Each is designed to serve the needs of a specific professional audience and as such each has its own admission requirements. Certificate students are limited to eleven credits per semester (seven during each summer session).

GEOGRAPHIC AND ENVIRONMENTAL POLICY SYSTEMS

This interdisciplinary basic or advanced certificate (15 or 30 credits) prepares professionals for planning of space and environments in a variety of natural and manufactured settings. The program emphasizes training in GIS software, its application to specific situations and its larger context of use (including policy). The certificate is appropriate for persons holding undergraduate and/or graduate degrees.

INFORMATION, COMMUNICATION, AND TECHNOLOGY

Software Design is a 19-credit certificate for developing proficiency in computer programming and design of software. This certificate is particularly appropriate for natural science, business, and engineering professionals needing to broaden their understanding of software design. A certified student possesses fundamental skills for general programming and in-depth knowledge of the current programming language JAVA. Graduates are able to adapt to new programming environments with a minimum of training and if desired, are prepared for entry into graduate study in computer science.

Information Technology is a 19-credit certificate on how to "use" rather than how to "design" computer systems. It combines software coursework in programming with several applications courses that deal with software systems and how they work. The program is open to any individual having an undergraduate degree (with some basic math), but is most useful to science and business majors. A certified student could work with digital communication systems as a programmer or analyst, understand communication protocols and manage computer networks or internet resources.

Digital Systems is for individuals who need to refresh or upgrade an existing engineering or science education by learning more about computer systems. This 17-credit program provides moderate exposure to a variety of computer engineering topics. Certified students would understand computer software and hardware well enough to apply them to their primary discipline. They would be able to design small digital circuits, write programs for both microcomputers and controllers, develop web pages and analyze computer networks.

Communication and Information Management is a 18-credit program designed for individuals wanting to develop proficiency in a variety of electronic applications related to communication and information. Certified students would possess an array of current technological skills relevant to public relations, publicity, interoffice and electronic communication, and data management. They could: understand and develop websites; work with desktop publishing; create, maintain, and manipulate data files; plan and design graphic presentations, and oversee office information systems.

ORGANIZATIONAL MANAGEMENT

This 24-credit certificate is intended for individuals who work in an administrative or supervisory capacity and who would therefore benefit from training in business-related areas, including accounting, personnel management, marketing, business law, leadership, and business ethics. The certificate is open to persons with or without an undergraduate degree. All coursework may be applied toward a business degree at Valparaiso University.

PUBLIC SERVICE AND LEADERSHIP

Basic and advanced (18 or 30 credit) certificates are designed for individuals with liberal arts or professional degrees who are considering or currently working in government or the public and nonprofit sectors. Both programs include coursework in government, public communication, finance, social and public policy, research methods, and administration and leadership. The advanced certificate allows further specialization in one or more of these areas.
ADMISSION
REGISTRATION
ACADEMIC POLICIES

Admission

Application for admission on a form provided by the Admissions Office may be filed at any time, but should be filed well in advance of the semester for which admission is desired. Each application must be accompanied by an Application Fee of $30.00. Applications for admission to undergraduate programs are sent to the Admissions Office. For admission to the School of Law, consult the catalog of the School of Law. For admission to the Graduate Division, consult the catalog of the Graduate Division.

General Requirements

Valparaiso University admits those students who demonstrate potential for success in rigorous academic work. Qualified applicants are admitted regardless of gender, disability, race, color, age, veteran status, or national origin or ancestry. The credentials of each applicant are individually evaluated, with consideration given to academic record, entrance examination scores, character, and evidence of motivation for college studies. The University reserves the right to deny admission to any applicant.

A student who wishes to be considered for admission into the freshman class must have the following items on file: 1) a completed application; 2) an official high school transcript; and 3) an official report of scores on the College Board’s SAT I or the American College of Testing Program Assessment (ACT).

Most Valparaiso University applicants will have taken and successfully completed the most challenging program of studies available in their high schools.

Most Valparaiso University applicants will have taken and successfully completed the most challenging program of studies available in their high schools. The number of high school units expected is listed below. One (1) unit is equal to one (1) year of satisfactory work in an accredited secondary school. Entrance requirements differ slightly for some colleges and academic programs.

For students intending to choose a major in the College of Arts and Sciences, high school preparation is expected to include:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Minimum Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Algebra, advanced algebra, and geometry</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language</td>
<td>2</td>
</tr>
<tr>
<td>History</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>2</td>
</tr>
<tr>
<td>Additional science, history, social sciences, language, English, and mathematics courses</td>
<td>3</td>
</tr>
</tbody>
</table>

Freshman Nursing applicants are admitted to the Pre-Nursing program in the College of Arts and Sciences. In addition to the requirements listed above, applicants must complete three (3) years of laboratory sciences. The courses must include one (1) year of chemistry and two (2) years of biology.

For students intending to major in the College of Business Administration, high school preparation is expected to include:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Minimum Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Algebra, advanced algebra, and geometry</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>2</td>
</tr>
<tr>
<td>Additional science, history, social sciences, language, English, and mathematics courses</td>
<td>3</td>
</tr>
</tbody>
</table>

For students intending to major in the College of Engineering, high school preparation is expected to include:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Minimum Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Algebra, advanced algebra, geometry, and trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>History</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>Physics</td>
<td>1</td>
</tr>
<tr>
<td>Additional science, history, social sciences, language, English, and mathematics courses</td>
<td>3</td>
</tr>
</tbody>
</table>

TRANSFER REQUIREMENTS

A student who wishes to be considered for admission as a transfer student must submit the following items:

1) a completed admission application;
2) official copies of ALL college transcripts, and if a student has earned less than 24 semester hours of college credit, a high school transcript (including SAT I and/or ACT scores).

To be considered for admission, a minimum 2.00 cumulative grade point average (C) in college coursework is required for most programs. However, some programs require a minimum 3.00 grade point average (B) for transfer students. A transfer applicant, currently on academic probation, cannot be considered for admission until in good academic standing with the current school.

SPECIAL REQUIREMENTS FOR CHRIST COLLEGE, THE HONORS COLLEGE

An academically talented student who is admitted to the University may be invited to apply for admission to Christ College by the Christ College Dean. Qualifications include superior academic performance, demonstrated leadership ability, and interest in pursuing interdisciplinary study. Students enrolled in Christ College are concurrently enrolled in one of the University’s four other colleges.

SPECIAL STUDENT STATUS

Students admitted to take classes for credit, but not admitted to degree-seeking status, are special, non-matriculated students. High school students concurrently enrolled at Valparaiso University, students who are taking classes for certification, personal enrichment, or as a precondition to admission as degree-seeking, and international intensive English language students are generally admitted as “special, non-matriculated students.”

Students admitted through the Office of Continuing Education (the College of Adult Scholars) are admitted as special, non-matriculated students. For a change from this status to classified, degree-seeking student status, an application for admission through the Office of (Undergraduate) Admissions is required.

This status is not available to a student dismissed from the University.

INTERNATIONAL STUDENTS

Valparaiso University welcomes applications from qualified international students. At present, over forty nations are represented in the University’s international student population.

Application and Fee. The completed international undergraduate application, together with a check for $50.00 payable to Valparaiso University, should be returned to the Admissions (Undergraduate) Office at least three months before the term for which the student is applying. The following items must be received before the Admissions Committee acts on the application:
Credit By Examination

Entering first-year students may become eligible for credit by examination in three ways:
1) through the Advanced Placement Program administered by the College Entrance Examination Board, 2) through the International Baccalaureate Program administered by International Baccalaureate North America, and 3) through the course credit program administered by individual departments.

Advanced Placement Program
Students who submit results of Advanced Placement examinations are eligible to receive credit in accordance with the following table. AP examinations must be taken before enrollment as a full-time student at Valparaiso University. For more information, contact the Admissions Office.

<table>
<thead>
<tr>
<th>Examination</th>
<th>Required Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Art Studio Drawing</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Biology (BIO 171-4 Cr.)</td>
<td>(Biology majors are encouraged to repeat BIO 171 if they receive a score of 3 on the AP Biology test.)</td>
</tr>
<tr>
<td>Chemistry (CHEM 121-4 Cr.)</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Chemistry (CHEM 121, 122-8 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Computer Science A (CS 290-3 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Computer Science B (CS 290-6 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Economics -Micro (ECON 221-3 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Economics -Micro (ECON 222-3 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>English, Language and Composition</td>
<td>(ENGL 100-3 Cr.)</td>
</tr>
<tr>
<td>English, Literature and Composition</td>
<td>(ENGL 200-3 Cr.)</td>
</tr>
<tr>
<td>Environmental Science (Natural Science -4 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>French Language (FLF 102, 103-8 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>French Literature (FLF 102, 103-8 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>German Language (FLGR 102, 103-8 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Spanish Language (FLS 102, 103-8 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Spanish Literature (FLS 102, 103-8 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Latin, Vergil (FLL 102, 103-8 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>History, American (HIST 220, 221-6 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>History, European (HIST 200, 210-6 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Math, Calculus AB (MATH 151-4 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Math, Calculus BC (MATH 151-4 Cr.)</td>
<td>5 Cr.</td>
</tr>
<tr>
<td>Math Calculus BC (MATH 151-5, 152-6 Cr.)</td>
<td>6 Cr.</td>
</tr>
<tr>
<td>Statistics (MATH 290-3 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Music Theory (MUS 163-3 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Physics B (PHYS 111, 112-6 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Physics C, Mechanics (PHYS 141-3 Cr.)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Physics C, Electricity and Magnetism (PHYS 142-3 Cr.)</td>
<td>4 Cr.</td>
</tr>
</tbody>
</table>

The Arts and Electives

| Art/Design | 3 Cr.          |
| Classical Greek (FLEX 102) | 4 Cr.          |
| Computer Science (CS 115) | 4 Cr.          |
| Latin (FLL 102) | 4 Cr.          |
| Music (MUS 101) | 3 Cr.          |
| Theatre Arts (ITVA 101) | 3 Cr.          |

Course Credit Examination Program
During the orientation period that precedes each semester, placement tests are offered to incoming students (freshmen and transfers) in the areas listed below. These tests provide an opportunity for students to attain advanced placement, receive credit, or meet certain General Education Requirements at Valparaiso University. Advanced placement and/or credit are awarded in biology, foreign languages and mathematics, as explained in the listings for those departments.

In all of the cases, the credit awarded is entered on the student transcript, which is maintained by the Registrar’s Office. This credit can be applied toward required or elective credits.

Credited earned by examination may advance standing in general education, as well as accelerated progress into advanced areas of study in an intended major or interdisciplinary program. Credit by examination may reduce the time required to earn an undergraduate degree.

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Housing Application

An application for University housing ("Housing and Enrollment Form") is mailed to each newly admitted student. This application and a deposit of $200.00 (tuition and housing) should be returned to the Admissions Office as soon as possible. All checks should be made payable to Valparaiso University.
Advanced Standing—Transfer Students

The University welcomes transfer students from junior colleges, community colleges and other accredited institutions of higher education. Students planning to transfer to Valparaiso University must apply for admission through the Office of Admissions at least three weeks before the official registration day of the term for which they are applying and must present evidence of honorable dismissal from the institution last attended. Transfer students will not be admitted to Valparaiso University until official transcripts and other required credentials are on file in the Office of Admissions. After their records are evaluated, applicants will be notified regarding the courses which are found acceptable for transfer. Courses with grades of C- or above are accepted as transfer credit for graduation. Grades are not transferable; only credit transfers. For students in the College of Business Administration, see page 189. For registered nurses in the degree completion program of the College of Nursing, see page 219.

Credits earned more than fifteen years before application for admission are accepted toward graduation on a provisional basis, subject to validation by the first thirty semester hours completed in residence at Valparaiso University with a 2.00 (C) average.

Advanced standing is the record of courses and credits accepted by Valparaiso University from another institution.

The maximum number of advanced standing credits that may be transferred to this University is 94 credits (Colleges of Arts and Sciences, Business Administration or Nursing) or 102 credits (College of Engineering).

Credit for workshops, institutes or travel-study ordinarily will be granted only for work taken at Valparaiso University. In cases of exception to this restriction, transfer credit for institutes or workshops usually will not exceed one credit per calendar week of instruction. Transfer credit for travel-study programs usually will not exceed two credits per calendar week.

General Education. A Statement of Equivalence is prepared by the dean of the college in regard to the General Education Requirements for the respective degree. Transfer students with more than 75 credits of advanced standing need to complete one course (three credits) of theology at Valparaiso University. One course in theology must be taken in residence at Valparaiso University.

Concentration Requirements. Statements of equivalence for academic majors, interdisciplinary programs or professional block schedules are prepared by the colleges or departments concerned.

Registration

All students are expected to register on the official registration days of each semester. For students currently enrolled, a registration period is announced during each semester to file a schedule for the next semester with the Registrar’s Office. For freshmen, transfer students and students who have been off campus for at least a semester, a registration period is provided at the beginning of each semester as listed in the University Calendar. (For the registration days and the calendar of the School of Law, consult that School’s bulletin.)

HEALTH REQUIREMENT

All students entering the University for the first time and all students who have not been registered at this University during the previous sixteen month period must submit to the University Medical Center a report of their medical history, physical examination and required immunizations from a licensed physician.

MAXIMUM AND MINIMUM CREDIT HOURS

A full-time student is one who is registered for at least twelve semester credit hours. Maximum credit hours allowed per semester without petition are given in the following table:

<table>
<thead>
<tr>
<th>Program</th>
<th>Maximum Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts and Sciences</td>
<td>17 Cr.</td>
</tr>
<tr>
<td>Education (Elementary, Middle Level)</td>
<td>18 Cr.</td>
</tr>
<tr>
<td>Secondary Education majors</td>
<td>19 Cr.</td>
</tr>
<tr>
<td>Bachelor of Music</td>
<td>18 Cr.</td>
</tr>
<tr>
<td>Bachelor of Music Education</td>
<td>19 Cr.</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>18 Cr.</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>19 Cr.</td>
</tr>
<tr>
<td>College of Nursing</td>
<td>17 Cr.</td>
</tr>
</tbody>
</table>

Students who maintained a grade point average of 3.00 (B) or better during the previous semester may register for extra hours, provided that their formal petitions for such work are granted. Such a petition must bear the signature of the academic adviser and be addressed to the Dean of the appropriate College. Forms are available from the Registrar’s Office. Freshmen are not allowed to carry extra hours during the first semester.

COURSE PREREQUISITES

Students are held responsible for meeting the prerequisites of all courses for which they enroll. In unusual cases, a student may petition to waive a prerequisite. Such a petition must bear the signature of the instructor of the course, the student’s academic adviser and the Chair of the Department in which the course is offered, and be addressed to the Dean of the student’s College. Forms are available from the Registrar’s Office.

CHANGE OF SCHEDULE

Students may change the status of their registration in courses up to the time of the calendar deadlines published in the University catalog. Such changes are matters of serious consideration. Before deciding on such an action, students should obtain the counsel of their course instructor, academic adviser and the Chair of the Department in the
which the course is offered. Forms are available in the Registrar's Office.

Any student-athlete who wishes to drop below 12 semester credit hours (full-time status) must obtain the signature of the Athletics Compliance Coordinator or her designee in addition to the signatures required on the appropriate form from the Registrar's Office.

Deadlines for course addition, course withdrawal, filing for S/U grade and withdrawal from the University are published in the University Calendar. Once these deadlines have passed, students are held responsible for completion of courses under the terms of the registration they have selected. Changes in registration after these deadlines are allowed only in exceptional cases where students demonstrate that extreme contributory circumstances have rendered their registration in a course invalid. Serious physical disability, prolonged illness or the death of a loved one: documented occurrences of this kind can be considered reasonable grounds for requesting an exception to the regular calendar deadlines.

A petition for special circumstances will be considered by the Office of the Registrar. The integrity of the Valparaiso University transcript and ultimately of the University itself demand that special exceptions be permitted only when special circumstances prevail.

Neither unsatisfactory academic performance, whether caused by inability or lack of application, nor lack of adequate evaluation of a student's performance in a course before the deadline are, in and of themselves, sufficient reason for petition.

Students may officially cancel enrollment in a course during the first six days without reflection on their permanent record. All requests for adding a course during the first six days remain at the discretion of the appropriate academic dean or department chair. From then until the published deadline, a student may officially withdraw from a course with a grade of W (withdrawal) on the student's permanent record. Students are not permitted, without an approved petition, to cancel enrollment in courses after the end of the ninth week of a semester. Not attending class does not constitute formal withdrawal from a course.

After the drop/add period and until the seventh week of a semester, the tuition fee is prorated according to a schedule which can be viewed in the Office of the Registrar. These rules apply only if students change from full-time to part-time or the reverse, or if part-time students adjust their academic class loads.

**APPEALS**

Denial of a petition by a student's Dean may be appealed to the Committee on Academic and Professional Standards. The appealing student should append reasons for submitting his appeal to the Committee.

**Academic Policies**

**GRADING SYSTEM AND QUALITY POINTS**

For the School of Law and the Graduate Division, refer to the appropriate bulletin.

The course grades reported and recorded in the Registrar's Office are as follows. The corresponding number of quality points per credit hour are also indicated.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points/Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>less than satisfactory, but passing</td>
</tr>
<tr>
<td>D</td>
<td>passing</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>failure</td>
</tr>
<tr>
<td>I</td>
<td>incomplete</td>
</tr>
<tr>
<td>W</td>
<td>authorized withdrawal</td>
</tr>
<tr>
<td>S</td>
<td>satisfactory</td>
</tr>
<tr>
<td>U</td>
<td>unsatisfactory</td>
</tr>
</tbody>
</table>

**Grades A through D** give credit toward graduation. A student who receives a grade of D- in a course is advised not to enroll in other courses for which the given course is a prerequisite. Candidates for graduation must have a cumulative grade point average of 2.00 or better in all their work at Valparaiso University.

**The grade I (incomplete)** may, at the discretion of the instructor, be given to a student under the following conditions:

1. The work completed in the course so far is passing (average D- or better).
2. The student has been unable to complete the remaining work in the course because of circumstances beyond his or her control.

An I (incomplete) received in one semester or summer session must be removed by the beginning of the official examination period of the next succeeding semester or it automatically becomes a grade of F. The student's deadline for submitting the appeal to the instructor shall be one week before that date. No Semester Honors will be given if the student received a grade of Incomplete at the official end of the semester concerned.

**Authorized withdrawal** from a course or from the University within the published deadlines gives the grade of W to each course withdrawn. This mark carries no credit.

The **satisfactory grade**, S, is given under the following conditions:

1. The course is designated in this catalog to be graded S/U or the student officially opts or petitions to have the S/U grade in the course.
2. The student's work in the course is satisfactory, of a quality which is comparable to a grade of C- (1.7 quality points per credit hour) or better.

Course credit hours with grades of S count toward graduation but are not counted in computing the student's grade point average.

The **unsatisfactory grade**, U, is given under the S/U grade option (condition 1 above) when the student's work does not meet the course objectives (condition 2 above). Course credit hours with grades of U do not count toward graduation and are not counted in computing the student's grade point average.

**The failing grade**, F, is given under any of the following circumstances:

1. Work done in a course is below a minimum standard required for passing.
2. A student fails to complete work to remove a grade of I (incomplete) before the deadline stated above.
3. A student withdraws from a course without filing the necessary form and obtaining the necessary approval.
4. A student withdraws from a course after the published deadline.
5. A student withdraws from the University without giving official notification. F grades are given in all courses thus dropped.

Only in exceptional cases, such as prolonged or serious illness, does the appropriate committee permit a student to withdraw from a course without a grade of F after the deadline for withdrawing from a course with a grade of W. To withdraw from a course requires the filing of the appropriate form with the signatures of the student's academic adviser, the instructor and the Chair of the department of the course dropped and the Dean of the student's College. Withdrawal from the University requires notification of the Office of the Assistant Provost for Student Affairs. The appropriate form is obtainable from that office.

**ADMISSION TO COURSES ON A SATISFACTORY/UNSATISFACTORY BASIS**

Undergraduate students are encouraged to venture outside the areas of their concentration, investigate new disciplines, and discover new, perhaps unsuspected, interests. If a student chooses, the Satisfactory/Unsatisfactory grading option may reduce the anxiety about electing a course in an area in which the student has had little or no prior experience. Students who are interested in conveying maximum information on their transcripts to professional and graduate school should speak to their advisers and the dean of their college prior to electing this option.

Certain courses normally result in S/U grades, as noted in the catalog descriptions. Physical Education courses 101-105 have the S/U option which the student may elect by declaring this choice in the usual way. In addition to any of these courses, the student may take one course a semester on a satisfactory/unsatisfactory basis subject to the following conditions:

1. Such courses must not be selected from:
   a. The student's major or minor field or fields;
   b. The required courses for any professional degree or preprofessional program, except for liberal arts electives or other courses approved by the Dean of the student's College;
   c. A repeated course, if not originally taken on the S/U basis;
2. Such registration must be signed by the student's academic adviser;
3. A decision to elect a course on S/U basis must be made by the end of the fourth full week of the semester for courses of usual length. **After this deadline, the S/U grading basis may not be changed.** This deadline applies proportionately to Summer Session or seven-week half-term courses.

**NOTE:** In selection of the S/U option, students are strongly advised to discuss the implications of that option with their adviser concerning entrance into professional schools.

**ADMISSION TO THE COURSE INTENSIFICATION PLAN**

Students may propose a special project for earning one extra credit in one liberal arts course in which they are enrolled in a given semester. This opportunity is part of the University’s Course Intensification Plan. The following regulations pertain to this option for a student:

1. The course must be offered in the College of Arts and Sciences.
2. The course must be offered in the Schedule of Classes for three or more credits.
3. The initiative and responsibility for developing a satisfactory proposal lie with the student.
4. The proposal is subject to the approval of the instructor of the course.
5. Approved proposals must be filed in the Registrar’s Office during the period specified in the academic calendar.

The Course Intensification Plan is a type of honors work, and under no circumstances should be considered a substitute for regular course work.

**ADMISSION TO COURSES AS AN AUDITOR**

A regularly classified student may register in a course as an auditor only with the permission of his adviser and the chair of the department which offers the course. An auditor may not be admitted to the final examination and is never granted credit for the course audited. No additional fee is charged when the student pays full tuition. Once in a course as an auditor, the student cannot change the status of his enrollment to get any kind of grade in the course.

**CREDIT HOURS**

A credit hour (abbreviated Cr. in lists of courses) represents one hour of recitation or lecture, or two or more hours of laboratory, each week for one semester. If time outside the laboratory is required to prepare laboratory notes or reports, two hours may be equivalent to one period of class work. Drawing, shop work and other courses demanding no outside preparation require a minimum of three hours for one credit hour. See specific course descriptions for the exact number of hours required.

For **short (seven weeks) courses**, the time per week per credit hour is twice that for the semester.

**REPETITION OF RESIDENT COURSES FOR CREDIT**

Unless repetition of a course for credit is permitted as shown in its catalog description, only the credits, grade and quality points received the last time the course is taken by a student at Valparaiso University shall be used in determining credit for graduation and the cumulative grade point average. A grade of W shall be excluded from this policy. The student’s transcript shall record all grades, original and repeat.

A student who elects to repeat a course must secure the appropriate signature on the form provided for this purpose before repeating the course. The form is available in the Registrar’s Office.

**ACADEMIC STANDING OF A STUDENT**

A student’s standing is determined by the ratio of the total number of quality points to the total number of credit hours attempted in all work at Valparaiso University except courses graded S/U. Thus a student who makes an average mark of C (2.0 quality points per credit hour) throughout the course of 124 semester hours will have 248 quality points, 124 credit hours and a standing of 2.00. The standing for a semester’s work is understood to be the ratio of the number of quality points gained to the number of credit hours scheduled. Standing is also referred to as the grade point average. Note the above exception regarding repetition of a course.

**ACADEMIC DEFICIENCY**

In the College of Arts and Sciences, College of Business Administration, College of Engineering and College of Nursing, students whose cumulative resident grade point average falls below 2.00 are considered academically deficient. Such students may be denied the privilege of continuing their studies at the University unless they succeed in improving the quality of their academic work to the satisfaction of the faculty during the following semester. The Dean of each College establishes procedures to give students who are academically deficient timely warning of their being denied continuation of their studies. Deficiency warnings are sent to parents and guardians of all undergraduate students in the day program who are less than twenty-one years of age, unless the students who are not a dependent of their parents or guardians notifies their academic dean to the contrary.

For regulations concerning academic deficiency in the School of Law, see that School’s bulletin.

**Dropped for Low Scholarship.**

Whenever, in the judgment of an academic dean, students who are academically deficient would benefit from an interruption of their work in a particular college of the University, the dean will notify the students in writing that they have been dropped and will specify the period of time for which they have been dropped and the conditions which they must satisfy in order to be readmitted.

**CLASS STANDING OF A STUDENT**

An undergraduate student must have 24 semester credits to be classified as a sophomore; 56 semester credits to be classified as a junior; and 88 semester credits to be classified as a senior. A student in the School of Law should consult that School’s bulletin.

**SEMESTER GRADE REPORT**

Grade reports are sent only to the student and only to the home address indicated by the student on the official biographical form. This report is considered by the University to be a progress report maintained by the University. Students may also view their grades online at https://datavu.valpo.edu.

**CLASSIFICATION OF COURSES**

The courses offered by the University are classified as follows:
- Lower division courses, numbered 100-299;
- Upper division courses, numbered 300-499;
- Graduate-undergraduate courses, numbered 500-599;
- Graduate only courses, numbered 600 and above.

**LEAVE OF ABSENCE-UNDERGRADUATE STUDENTS**

At the end of a semester, a student who has completed at least one full semester of work in residence and who is in good academic standing may apply for a leave of absence. This absence requires approval of the academic adviser and the academic dean. The necessary form may be obtained from the Registrar’s Office. This student may return to Valparaiso University without formally applying for readmission within a period of two years following the start of the leave of absence. However, the student must notify the Registrar’s Office if the return date as originally stated is changed within the two year period. Leaves are not given to students who withdraw from the University during a semester.

All leaves must be requested before the beginning of the semester in which they are to take effect.

**READMISSION OF FORMER STUDENTS TO UNDERGRADUATE AND PROFESSIONAL PROGRAMS**

Students who have fully matriculated at Valparaiso University and who have interrupted their studies for whatever reason must apply for readmission to the University through the Readmissions Committee. The request for readmission is to be sent to the Registrar. Emotions are students who took a formal leave of absence under the conditions specified above, and students enrolled in the Deaconess Training Program, who usually spend one year in in-service training. (Cooperative Program work semesters and off-campus special semesters are considered to be continuation of study, for which exceptions are students who have officially registered.) Application for readmission must be made at least one week before the registration date of the term in which the student wishes to enroll. Applications will not be accepted after this date.

The student being readmitted must present the necessary information such as records of attendance and grades at other colleges, and a new medical examination report if the student has been out of school during the previous sixteen month period, before action will be taken on the request to be readmitted.

Credit hours earned more than fifteen years before application for readmission (either at Valparaiso University or at another accredited institution) are subject to reevaluation and, if
accepted by the appropriate University standing committee, may be subject to validation by the first year's work (30 semester credits) completed in residence with a 2.00 grade point average.

The case of each student applying for readmission is presented to the Readmissions Committee. The Registrar's Office notifies the student of the Committee's decision. Students with outstanding financial obligations to the University are not considered for readmission until these obligations have been paid in full.

ADVANCED STANDING—RESIDENT STUDENTS

Any resident student who has taken academic course work at an accredited educational institution must request the Registrar of that institution to send an official transcript to the Valparaiso University Registrar's Office, where an evaluation is made for possible acceptance of transfer credits. Courses with grades of C- or above are accepted for transfer credit. Grades are not transferable; only credit transfers.

Credit for workshops, institutes or travel-study ordinarily is granted only for work taken at Valparaiso University. In cases of exception to the preceding restriction, transfer credit for institutes or workshops will not exceed one credit per calendar week of instruction. Transfer credit for travel-study programs will usually not exceed two credits per calendar week.

Resident students who wish to take courses at other approved schools concurrently with their Valparaiso work should refer to the appropriate paragraph under Residence Requirements on page 254.

TRANSFER TO ANOTHER PROGRAM

If a student transfers from one major or interdisciplinary program to another, all requirements of the new specialization must be met. Such a transfer subjects credits previously earned to a reevaluation. In certain cases the change of program may result in some loss of credit (e.g., if a course taken as a General Education Requirement is superseded by another course required for the new major). Therefore, such transfers may not be made without the written approval of the advisers and deans concerned. Necessary forms may be obtained from the Registrar's Office.

In the case of transfer from one college to another, note well in the requirements for the degrees of the new college any restrictions on credit hours which may be transferred from the former college.

EXAMINATIONS

Written tests and quizzes are given from time to time during the semester at the discretion of the instructor.

A final examination is required in all courses of 3 credit hours or more. Exceptions may be made for such courses as independent study, practice and internships, performance, studio and activity courses. Final examinations are held at the close of each semester and, for courses of 3 credit hours or more, must be conducted according to a schedule published by the Registrar.

Final examinations in courses of less than three credits are conducted during regularly scheduled class periods.

In order to give students adequate opportunity to prepare for final examinations, no tests may be given in courses of 3 credit hours or more within seven days before the beginning of the examination period.

Exceptions to these policies require the written approval of the Dean of the College in which the course is offered. Exceptions to the schedule are usually approved when a student has three or more examinations scheduled on the same day.

ABSENCE FROM CLASS

All students are expected to attend every one of their classes unless their absence has been approved by the instructor concerned or the appropriate dean. Absence from class is primarily a matter between the student and the instructor of the class. It is the students' responsibility to discuss with their instructors the reason for their absence and to learn what makeup work may be required.

WITHDRAWAL FROM THE UNIVERSITY

For the School of Law, consult that School's bulletin. A student who wishes to withdraw from the University for the remainder of a semester or session must apply to the Dean of Students before the deadline date for a permit to withdraw (see calendar at front of catalog). Upon return of the permit properly signed to the Registrar's Office, the Registrar authorizes the return of such fees as are refundable. In the case of a student who is less than twenty-one years of age, the parent or guardian is notified of the withdrawal by University Registrar. If students withdraw after the seventh week of the semester, they are ordinarily not granted readmission for the following semester, unless extreme contributory circumstances such as severe illness caused the withdrawal.

The term "honorable dismissal" refers to conduct and character only, not to class standing and grades. It is not granted unless the students' conduct and character are such as would entitle them to continue in the University.

A student who withdraws from the University without authorization, or after the published deadline, is not entitled to refunds of any kind and the instructor of each course in which the student is enrolled is required to report a final grade of F to the registrar. For the School of Law, consult that School's bulletin.

Graduation

RESPONSIBILITY OF THE STUDENT

Every candidate for a degree is personally responsible for meeting all requirements for graduation. No University official or adviser can relieve the student of this responsibility.

Students in the undergraduate program of the University may fulfill the requirements for graduation under any catalog issued during their years of attendance, beginning with the year they first entered the University, provided there is no absence of five or more years between periods of attendance. (For the School of Law, consult that School's bulletin.) All requirements in one catalog issue must be met.

Students who return to the University after an absence of five or more years may no longer be a candidate for a degree on the basis of the catalog requirements covered by their previous years of attendance, but must fulfill for graduation all the requirements and provisions beginning with the catalog of the year in which they reenter the University. In addition, credits earned at Valparaiso University more than fifteen years before reentry are subject to reevaluation and shall not be accepted toward graduation requirements unless approved by the appropriate Faculty or University Senate Standing Committee.

SECOND DEGREES

In order to receive a second degree, a student must earn at least thirty semester credits and sixty quality points in excess of the total number of semester credits required for the first degree and, in addition, the student must fulfill all the specific course requirements for the second degree. No course used to fulfill a major or minor requirement for one degree may be used to fulfill any major or minor requirement for a second degree. A student who selects an individualized major or minor for any degree may not use the designated courses to fulfill any other graduation requirement.

Approval of applications for dual degrees must be given by the appropriate advisers, deans, and the Committee on Academic and Professional Standards. No student may graduate at one commencement with more than one degree of the same notation.

Students in the Graduate Division should refer to that Division's bulletin for specific information.

CREDIT AND QUALITY POINT REQUIREMENTS

Candidates for graduation with the Associate in Science degree or a bachelor's degree must have a grade point average of 2.00 or more in all their work at Valparaiso University. In addition, candidates for a bachelor's degree must have a grade point average of 2.00 or more in any major, minor or interdisciplinary program, based on their work at Valparaiso University. Also, candidates for the Associate in Science degree must have a grade point average of 2.00 in all of their science courses at Valparaiso University. In the computation of the students' standings, grades of D+, D, D- and F are included. Grades of S, U and W are not included.

Candidates for a master's degree or the Juris Doctor degree should consult the appropriate bulletin for the corresponding requirement.
RESIDENCE REQUIREMENTS
Regardless of other degree requirements, candidates for all bachelor's degrees must meet the following requirements in residence at Valparaiso University:
1. At least one-half the number of credit hours required for any major, minor or interdisciplinary program (a minimum of 15 credit hours in the area of foreign languages);
2. At least three credits in theology;
3. At least thirty of the last forty credits presented for the degree.
Residence requirements for master's degrees and the Juris Doctor degree may be found in the appropriate bulletins.
Ordinarily, credit is not given for courses taken concurrently at other approved schools or for correspondence courses taken during a student's enrollment at this University. Any exception to this policy must have the approval of the student's academic adviser, the Dean of the appropriate College and the Committee on Academic and Professional Standards. Note that credit for courses taken under one of the International Study Semesters or Special Semester programs described on pages 12-13 and 18-24 apply as taken in residence at this University.

APPLICATION FOR A DEGREE
A student who wishes to receive a degree at the end of a Fall Semester must formally apply for the degree on a form provided for this purpose by the Registrar's Office not later than the preceding April fifteenth. A student who wishes to receive a degree at the end of a Spring Semester or a Summer Session must formally apply for the degree on a form provided for this purpose by the Registrar's Office not later than the preceding October first.
A summer session student, not enrolled in the previous academic year, who expects to receive a degree at the end of a Summer Session must formally apply for the degree at the beginning of that Summer Session.

If, for any reason, students (except a graduate student) do not meet the requirements for graduation after filing their application, the students must file a new formal application by the beginning of the session in which they then expect to receive a degree.
Candidates for degrees in August or December, who expect to complete requirements in absentia, must be sure that all course work is completed and the session ended by the deadline date set for candidates who are registered on campus. Official transcripts must be on file in the Registrar's Office no later than ten days after the close of a semester or session. This does not apply to May candidates, as these candidates must be certified before the May Commencement. Further information will be furnished upon request from those candidates completing degree requirements in absentia.

PRESENCE AT COMMENCEMENT
A candidate for graduation at the end of the Spring Semester must be present at commencement in order to receive a degree. Degrees are not conferred in absentia, except on special permission from the President of the University.
 Students who complete their work toward a degree at the end of a Fall Semester or of a Summer Session may be granted the degree at that time.

BACHELOR'S DEGREES WITH HONORS
Students who have been in attendance at Valparaiso University at least two years (a minimum of sixty credit hours) and who have maintained a grade point average of 3.60 in their work at this institution will be graduated Summa Cum Laude.
Students who have been in attendance at Valparaiso University at least two years (a minimum of sixty credit hours) and who have maintained a grade point average of 3.40 in their work at this institution will be graduated Magna Cum Laude.
Students who have been in attendance at Valparaiso University at least two years (a minimum of sixty credit hours) and who have maintained a grade point average of 3.00 in their work at this institution will be graduated Cum Laude.
See the bulletin of the School of Law for the Juris Doctor degree with honors.

SEMESTER HONORS
An undergraduate student (freshman through senior) who achieves a grade point average of 3.50 in any semester will be awarded honors under the following restrictions:
1. The student received no grades of I or U at the official end of the semester concerned.
2. The student was registered for at least fourteen credit hours of work for that semester on campus or at least twelve credit hours in an International Studies Semester, Special Off-Campus Semester or any other approved cooperating program (pages 12-13 and 18-24).

TRANSCRIPTS OF ACADEMIC RECORDS
The Family Educational Rights and Privacy Act of 1974 (Buckley Amendment) provides, in part, that the institution will maintain the confidentiality of student academic records. The University's entire policy may be found in the Student Guide to University Life.
No one outside the University shall have access to, nor will the University disclose any information from, student academic records without the written consent of students, except to persons, organizations or agencies which are permitted to receive such information under the Act.
Official transcripts of academic records are released only upon the written request of the student. No degree is conferred upon and no transcript is given for a student whose account with the University has not been settled in full.
TUITION AND FEES
EXPENSES
HOUSING REGULATIONS
REFUNDS

Tuition and Fees

Undergraduate and Professional Tuition, Full-Time Students

FEES
The general fee for each semester amounts to $319.00 for all full-time undergraduate students and $272.00 for all full-time law students. The undergraduate general fee is paid by all full-time undergraduate students registered for at least 12 credit hours per semester. The fee is used to defray the cost of the following services: health and hospitalization program, co-curricular activities, and Student Senate. Laboratory fees are not charged for regular courses. Students enrolling in laboratory courses are financially responsible for breakage or damage to equipment.

Performance Music Fees. The University encourages students to continue performance music instruction by charging modest fees for private lessons. Students pay a fee of $300.00 per semester, per course for instruction in private or class lessons in performance music. There is no additional charge for use of an instrument or practice room.

Students taking private lessons are held responsible for making arrangements with the instructor to complete all lessons during the semester. If the student is unable to complete within the semester the series of lessons for which he was assessed, a report should be made immediately to the Chairman of the Department of Music by the student. The performance music fee is not refundable after the tenth class day of a semester.

Tuition and Fees For Part-Time Undergraduate Students and Professional Programs

Undergraduate students who register for less than 12 credit hours are classified as part-time students. Such undergraduate students pay tuition charges as follows:

Enrolled in 6 or less credit hours per semester $490 per credit hour
Enrolled in more than 6 and less than 12 credit hours per semester $660 per credit hour
Enrolled in College of Adult Scholars, no credit hour requirement $265 per credit hour

The general fee for part-time students is $50.00 per semester.

These charges do not include the use of the facilities, of the health service nor participation in the student insurance plan.

Auditors pay $660.00 per credit hour equivalent.

Part-time rates for the School of Law are listed in the Law Catalog. Part-time rates for graduate students are published in the Graduate Catalog. Tuition charges for special programs for registered nurses sponsored by the College of Nursing may be obtained by contacting the Dean of Nursing or the Office of Admissions.

Special Fees

Application-$30.00. This fee is payable at the time of application for admission to the University. It is not refundable.

Readmission-$20.00. This fee is payable at the time of application for readmission to the University. It is not refundable.

Tuition Deposit-$100.00. This fee is required of all new students, both resident and commuter. It is not refundable. For the School of Law, see the appropriate bulletin.

Housing Deposit-$100.00 ($100.00 for returning students). This fee is required of all students requesting University housing. In case of cancellation, see Refund Policy on page 261.

Nursing Liability Insurance-$24.00 (Family Nurse Practitioner-$88.00). In connection with the clinical practice component of the nursing program, all students in the College of Nursing, beginning with the sophomore year, must secure and provide proof of professional and personal liability insurance.

Nursing Lab Fee-$50.00. This fee is payable by each nursing student entering the sophomore year.

Nursing Testing Fee-$350.00. This fee is payable by each nursing student entering the sophomore year.

Vehicle Registration-$45.00 per year.

Study Abroad, Cambridge, England-$800.00. Each participant pays this fee.

Study Abroad, Reutlingen, Germany-$800.00. Each participant pays this fee.

Study Abroad, Puebla, Mexico-$800.00. Each participant pays this fee.

Study Abroad, Hangzhou, China-$800.00. Each participant pays this fee.

Transcript-No charge is made for any transcript issued. No transcript of a student's record is released until the student has met in full all obligations, financial or otherwise, to the University.

Late Registration or Confirmation-$40.00. This fee becomes effective on the first day of classes for fall and spring semesters only. In no case are students who register or confirm late exempted from this fee, unless for valid reasons they have been given written authorization for exemption by the Registrar.

International Student Transfer Credit Evaluation-$135.00. This fee is payable by each international student who transfers college level work for credit. The fee is used for the professional evaluation of the work to be transferred. This fee must accompany the transcript or certified copy sent to the Office of Admissions.

Engineering Fee-$325.00 per semester. The engineering fee is assigned to students enrolled in the College of Engineering after they have completed the first year of the engineering program. For purposes of assessing the fee, engineering students who have completed 24 or more university credits at Valparaiso University or elsewhere (but
excluding advanced placement credits) are considered to have completed the first year of the program. Engineering courses numbered above 200 or cross-listed in other colleges and taken by a student who is enrolled in one of the other colleges at Valparaiso University may not subsequently be used to satisfy engineering degree requirements unless this fee is paid. Exceptions to this fee may be granted by the Vice President for Administration and Finance on the recommendation of the Dean of the College of Engineering.

PAYEE
Drafts, checks and money orders should be made payable to Valparaiso University. A $20.00 fee will be charged for each check returned by the bank due to insufficient funds, closed accounts, etc.

Expenses
An estimate of normal expenses for a semester in each college is given below.

<table>
<thead>
<tr>
<th>College of Arts and Sciences</th>
<th>Average Cost Per Semester</th>
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<tbody>
<tr>
<td>Tuition</td>
<td>$10,000.00</td>
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<tr>
<td>General Fee</td>
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<tr>
<td>Rent of Room and Board</td>
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<tr>
<td>Freshman</td>
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<td>Sophomore</td>
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<td>Junior-Senior</td>
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<td>Books and Supplies</td>
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<tr>
<th>College of Business Administration</th>
<th>Average Cost Per Semester</th>
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<tr>
<td>Tuition</td>
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<td>General Fee</td>
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<tr>
<th>School of Law</th>
<th>Average Cost Per Semester</th>
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<tr>
<td>Tuition</td>
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<tr>
<td>General Fee</td>
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<tr>
<td>Rent of Room and Board</td>
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<tr>
<td>Books and Supplies</td>
<td>$500.00</td>
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Estimated expenses for room and board are based upon a minimum meal plan buy-in of $1000.00 per semester (freshmen), $950.00 per semester (sophomore), $900.00 per semester (junior), and double occupancy room rent of $1,740.00 per semester for Alumni, Lankenau, Brandt, and Scheele Halls. For other residence halls, $1,880.00 per semester for 807 Mound; $2,000.00 per semester for Wehrenberg, Guild, and Memorial Halls; $2,080.00 per semester for Kade-Duesenberg; $2,090.00 per semester for 356 University Park; and $2,190.00 per semester for 1077 Linwood. A limited number of single rooms may be made available at an additional cost.

The student's transcript is not released until payment of all obligations has been made. Each graduating student must pay any remaining financial obligations to the University before graduation.

No degree is conferred upon and no transcript is given for a student whose account with the University has not been settled in full.

Loans such as the Federal Perkins Program or Valparaiso University Student Loans become due as stated in the promissory note signed by the student. Transcripts are not released to students who are in arrears on these loans.

EDUCATIONAL EXPENSE PAYMENT PLANS
Valparaiso University participates in a deferred payment plan for the convenience of those students and parents who may wish to spread payment over the school year or beyond. Under this plan, monthly payments may be arranged for the payment of tuition, fees, room and board.

Listed below, along with a brief description, is the plan approved for use by the University. Detailed information is normally sent directly to each admitted applicant by the plan sponsor. Should a student not receive this information or should a student have further questions, the address and phone number of the plan can be obtained by calling Academic Management Services, One AMS Plaza, P.O. Box 100, Swansea, MA 02777. Phone: 1-800-635-0120. Website: <www.TuitionPay.com>. This plan is a monthly payment plan designed to relieve the pressure of "lump sum" payments by allowing participants to spread the cost over a period of months without borrowing or paying interest charges. The plan does not relieve students of the obligation to pay the sum of the plan.

Tuition and Fees, Expenses, Housing Regulations, Refunds

The University requires first-year students, sophomores and juniors to live in residence halls. Class standing is determined by student classification policy, page 251. Exceptions are made for veterans, those who will be 22 before September 1 of the academic year in question, those living with parents or spouse (commuter students), and sophomore and junior fraternity men who live in recognized fraternity houses. All sophomore and junior students who return from their fall semester of International Studies or other cooperative off-campus programs are required to live in University operated residence halls during the spring semester.

Senior, graduate and law students may apply to live in University residence halls, however, first priority is given to undergraduate students.

The Office of Residential Life and Housing also maintains a listing of rooms in private homes, apartments and homes for sale or rent. Students desiring such accommodations should plan to visit the campus at least six weeks before the semester of enrollment to inspect the available listings and make arrangements with the individual landlords. Every landlord whose property is listed has signed a nondiscrimination statement. The University is not involved in arrangements between students and landlords, except in the event of racial discrimination. The University provides a listing service only and does not inspect, approve, recommend, or authorize any off-campus living units.

Commuter Students. Although students are normally required to live in University residence halls, an exception is...
made for commuter students. A commuter student is defined as a full-time, undergraduate student who lives with his/her parent or legal guardian, at their primary residence. This address must be within the shorter of 50 miles or one hour from campus. Students who otherwise would be required to live on campus may not reside at another off-campus address after registering as a commuter student. Questions related to this policy should be directed to the Office of Residential Life and Housing.

Application. An application form for University housing is mailed to each new student with the New Student Enrollment Agreement. This application and the $200.00 deposit (tuition and housing) should be returned to the Office of Admissions as soon as possible. All checks should be made payable to Valparaiso University. A student who occupies a room in a University residence hall will have $100.00 of the deposit go towards their housing deposit and the remaining $100.00 toward tuition and fees.

All returning students who are required to live in University residence halls according to University housing regulations must complete an Upperclass Housing Agreement form. If an upperclass student does not currently have a $100.00 Housing Deposit on file, he/she is required to make a deposit at the Financial Office in accordance with application guidelines established by the Office of Residential Life and Housing.

Assignment Policy. New freshman and transfer student assignments are made by the Office of Residential Life and Housing in the order in which their New Student Enrollment Agreements and deposits are received according to space availability.

Returning upperclass student assignments are made according to the guidelines established by the Office of Residential Life and Housing. Assignments are made with the goal of establishing and developing positive residential communities. All Upperclass Housing Agreements received before the deadline indicated by the Office of Residential Life and Housing will be given equal consideration as outlined in the instructions for the assignment process.

The University will endeavor, but cannot guarantee, to assign accommodations according to the preferences indicated by the student.

Any request for a change in residence hall assignment must be submitted in writing and approved by the Office of Residential Life and Housing.

The University reserves the right to make changes in residence hall assignments if necessary for the most effective accommodation of the student body.

Refunds - New Students. The Housing Deposit is refunded in full if a written notice of cancellation is received by the Admissions Office on or before May 1 for the fall semester, or on or before November 1 for the spring semester. No refund will be given if enrollment cancellation notice is given after these respective dates.

Refunds - Returning Students. Deposits are refunded minus any other indebtedness to the University according to the following guidelines. The full deposit is refunded if written notice is given to the Office of Residential Life and Housing before the application deadline for fall semester, and November 15 for spring semester. One-half of the housing deposit is refunded if written notice of cancellation is received by the Office of Residential Life and Housing before June 1 for the fall semester, or before December 1 for the spring semester. No refund is given for cancellation after these respective dates.

Tuition and Fees, Expenses, Housing Regulations, Refunds

Refund Policy

Withdrawal from all classes. Students who withdraw from Valparaiso University may be eligible for a refund of a portion of the tuition and room and board charges for the semester of their withdrawal. The University and/or the student may be required to return some of the Federal Title IV institutional aid, if any, awarded to the student. If the student received Federal Title IV aid from state, University or private funds (other than Federal Work Study), a portion of a refund may also be returned to the grant, scholarship or loan source from which it was received.

Valparaiso University's refund policy exists for calculating the refund of institutional charges. The federal "Return of Title IV Funds" formula dictates the amount of Federal Title IV aid that must be returned to the federal government by the school and the student. The federal formula is applicable to a student receiving federal aid other than Federal Work Study, if that student withdraws on or before the 60% point in time in the semester. The student
may also receive a refund of institutional charges through the University's refund policy (below). The amount of refund of institutional charges will be the greater of the amount the school must return to federal Title IV programs or the amount determined by the University's refund policy.

The date of withdrawal and basis for calculating all refunds will be the date on which the student notifies the Office of Student Affairs of their intent to withdraw from the University, provided the withdrawal form is completed and submitted to the Office of the Registrar no later than the end of the next working day. Each semester, a schedule of the applicable refund dates is available in the Finance Office, the Office of Financial Aid, and the Registrar's Office.

Valparaiso University's refund policy is as follows: Students who withdraw from the University will receive a prorated refund of tuition and room fees according to the following schedule:

- During the first week of classes: 90%
- During the second week of classes: 80%
- During the third week of classes: 70%
- During the fourth week of classes: 60%
- During the fifth week of classes: 50%
- During the sixth week of classes: 40%
- During the seventh week of classes: 30%
- After seventh week of classes: none

The unused meal plan credit is refundable throughout the semester. The refund amount equals the balance of the unused contract less a ten percent administrative fee.

There will be no refund of general, special and laboratory fees.

If a student is receiving financial aid, University and state funds will be reduced according to the above University refund policy. However, the schedule is different for federal funds. If a student withdraws on or before the 60% point of the semester, the percentage of funds that must be returned to the federal government is equal to the number of calendar days remaining in the semester, divided by the number of calendar days in the semester. Scheduled breaks of more than four consecutive days are excluded. The calculation of the return of these funds may result in the student owing a balance to the University and/or the federal government.

Note: If funds are released to a student because of a credit balance on the student's account, then the student may be required to repay some of the federal grants if the student withdraws.

Students considering withdrawing from all classes should consult with the staff in the Student Accounts and/or Financial Aid Offices if they are concerned about the financial impact of withdrawing.

Dropping Courses. Students who drop one or more courses but continue to be enrolled in at least one course for the semester will have tuition charges refunded according to the University's refund policy. There will be no refund of the special, laboratory or general fees.

The financial aid award, if any, is subject to revision if the student drops one or more courses.

Financial Aid

Valparaiso University is committed to providing resources necessary to help students complete their education. In selecting the students to receive this assistance, the University places primary emphasis on the student's academic achievement, and financial need. Financial aid consists of scholarships, grants, loans and campus employment, which may be offered to a student singly or in various combinations. The family of a student is expected to make a maximum effort to assist with college expenses. For more information about financial aid programs, contact the Office of Financial Aid.

METHOD OF APPLICATION

The following procedure should be followed by any student entering the University for the first time who wishes to apply for financial aid:

1. File an Application for Admission with the Office of Admissions. No student will be considered for assistance until the formal application has been approved.

2. Submit the Free Application for Federal Student Aid (FAFSA). The FAFSA requires no fee and can be secured from your high school guidance office, by writing to the Office of Financial Aid, Valparaiso University, or on-line at <www.fafsa.ed.gov>. All students should file the FAFSA before March 1 for priority consideration. (For Indiana residents, FAFSA must be filed in lieu of the FAFSA for Indiana awards.)

Students who filed a FAFSA for the previous year may receive a Renewal Application for Federal Student Aid. This may be filed in lieu of the FAFSA. The filing of the FAFSA should be completed as soon after January 1 as possible. The Office of Financial Aid cannot guarantee full consideration for students whose FAFSA is filed later than March 1 of the spring before matriculation.
Financial Aid, Scholarships, Loan Funds

RENEWAL
All need-based financial assistance requires the annual filing of the Free Application for Federal Student Aid (FAFSA) or the Renewal Application. Students should file the renewal application by March 1 for priority consideration. Renewal depends on continued need, the availability of funds, and eligibility as described below.

FINANCIAL AID PROGRAMS
Financial aid awards may include gift aid (grants and scholarships) and/or self help (loans and employment).

Financial Aid Eligibility. To be eligible for most federal, state, and Valparaiso University assistance undergraduate students must be enrolled full-time (some federal and state assistance is available to part-time students) in a degree or certificate program with at least twelve credits per semester; maintain satisfactory academic progress; demonstrate financial need as determined by filing the FAFSA; be a U.S. citizen or an eligible noncitizen; not be in default on a federal loan or owe a refund or overpayment on any federal or state program.

Graduate students also must meet the above requirements. However, they must be enrolled in a degree program with at least six credits per semester. Initial financial aid awards are based on the assumption that the recipient will be enrolled full-time. Students who enroll for less than full time or who withdraw during a semester could have their financial aid award reduced or canceled. Enrollment status is determined at the beginning of each semester. For Federal Direct Loans, enrollment status is determined when the loan is disbursed.

ACADEMIC SCHOLARSHIPS
Academic Scholarships for freshmen are awarded to eligible admitted applicants without regard to financial need on a funds-available basis, and are renewed if the cumulative grade point average and full-time status are maintained. Founders and Board of Directors Scholarships require a 3.0 grade point average for renewal; other academic scholarships including Presidential, Honors, and Crusader require a 2.75 grade point average for renewal.

SPECIAL AWARDS
These special awards require full-time undergraduate attendance and grade point requirements for renewal to eligible admitted applicants. The following awards require a 2.75 cumulative grade point average for renewal:

- Allen Pre-Departmental, $1,000 annual award, selected by the Art Department;
- Awards for Excellence, $500 annual award, for outstanding Lutheran High School performance;
- Chemistry Scholarships, $1,000 annual award, selected by the Chemistry Department;
- Foreign Language Scholarships, $1,000 annual award, selected by the Foreign Language Department;
- Foreign Language Scholarship, $1,000 annual award, selected by the Foreign Language Department;
- Lumber Principal's Christus Scholarships, $2,000 annual award, selected in cooperation with Lutheran High School Principals;
- Music Scholarships, $1,000 annual award, selected by the Music Department;
- Phi Theta Kappa Awards, up to $5,000 annual award, to selected transfer students who are Phi Theta Kappa members.

The following award requires a 2.50 cumulative grade point average for renewal:

- Larson Leadership Awards, $250 annual award, selected by the Theatre Department.

The following awards require a 2.00 cumulative grade point average for renewal:

- Alumni Heritage Awards, $1,000 annually to children of Valparaiso University alumni;
- Deaconess Grants, varying award amounts, selected by the Lutheran Deaconess Association;
- Founders Awards, varying award amounts, to students of multicultural background who display exceptional promise.
- International Scholarships, varying award amounts, to selected international students.
- Luther Heritage Awards, $1,000 annual award, for active members of a Lutheran congregation.
- Luther High School Awards, $1,000 annual awards, to students who graduate from a Lutheran High School.
- Martin Luther Awards, $4,500 annual awards to children of full-time Lutheran professional church workers. Students who qualify for the Martin Luther Scholarship will receive the higher of the academic award or the Martin Luther award.
- Music Grants, varying award amounts, selected by the Music Department based on auditions.

Valparaiso University National Merit Awards, varying award amounts to national Merit finalists.

Valparaiso University National Merit Awards, varying award amounts to national Merit finalists. Recipients must list Valparaiso University as the first college choice and not be receiving another type of National Merit Scholarship.

Athletic Grants, varying award amounts, selected by the Athletic Department and individual coaches. Renewal subject to Athletic Department policy and NCAA regulations.

CAMPUS EMPLOYMENT
Students are employed in a variety of positions on campus. Open positions are posted in the Financial Aid Office throughout the year, and also on Valparaiso University's website at <www.valpo.edu/financial-aid>. Students should contact the individual departments with job openings to apply for positions. Students with demonstrated financial need may work under the Federal Work Study Program (FWS). FWS students may also apply for off-campus jobs in the Community Service component of the program. Students may work on campus under the Valparaiso University Work Study Program regardless of financial need.

NEED-BASED AID GRANT PROGRAMS
Valparaiso University Gift Awards are institutional awards that are not repaid. All students who file the FAFSA and demonstrate need will be considered. These awards may be funded by endowed scholarships, and other designated funds. Students will be notified if their award is funded by an endowed scholarship, and will be encouraged to thank the donor.

Federal Pell Grants are available to all students who have demonstrated financial need according to a federal formula. The FAFSA is required. Awards range from $400 to $4,000 annually; may be enrolled full-time or part-time.

Federal Supplemental Educational Opportunity Grants (SEOG) are federal grants, awarded to Valparaiso University students with the greatest financial need. Amount of the awards ranges from $200 to $4,000 annually; may be enrolled full-time or part-time.

State Grants (Higher Education Award, Freedom of Choice Award, and 21st Century Awards) are available to eligible Indiana residents and may be used at Valparaiso University. Non-Indiana residents should contact their state agencies for information and application procedures for any state grants for which they may be eligible. The FAFSA must be received by the federal processor by March 10 to be eligible for Indiana Awards. Awards are based on need, and are determined annually by state formula. Students must be enrolled full-time for the standard grant programs. Limited funds may be available for part-time students.

NEED-BASED LOAN PROGRAMS
Need-based student loans feature below-market interest rates, subsidized interest, and deferred payments. Students must be enrolled at least half-time. Repayment of these loans does not begin until six to nine months after graduation or after dropping below half-time status. Payments may be deferred for attending graduate school or for a variety of special circumstances. Repayments usually extend over a period of ten years although extended terms and income-contingent plans are also offered. There is no penalty in student loan programs for prepaying interest and principal.
Financial Aid, Scholarships, Loan Funds

Valparaiso University students receive loans as part of their financial aid packages. In addition to the loans listed below, there are other private lenders who specialize in educational loans that are not based upon financial need. Contact the Office of Financial Aid for further information.

The following federal need-based educational loans are available through Valparaiso University. To be eligible, you must complete and submit the FAFSA. Valparaiso University notifies the student of eligibility via an Award Notification and sends a Promissory Note to sign and return.

Federal Perkins Loans. Students enrolled full-time who have exceptional need. Monies come from the federal government and are administered by Valparaiso University. The interest rate is 5 percent and repayment begins nine (9) months after the student is no longer enrolled at least half-time. Entrance and exit counseling is required. Complete and submit the FAFSA before March 1st. Part-time students may receive Perkins loans in special circumstances if funds are available.

Federal Direct Subsidized Student Loans. Students enrolled at least half-time who demonstrate financial need. Monies come from the federal government. The federal government pays interest while the borrower is in school. Repayment begins six (6) months after the borrower is no longer enrolled in college at least half-time. Entrance and exit counseling is required. A variable interest rate adjusts every July 1, capped at 8.25 percent. Loan limits are $2,625 per year for freshmen; $3,500 for sophomores; $4,500 for juniors, seniors, and fifth year students. The aggregate maximum is $23,000 in the undergraduate program. Graduate students are capped at $22,500 per year, with a lifetime aggregate cap (including undergraduate loans) of $65,000. All first-time borrowers must complete an entrance interview.

ALTERNATIVE SOURCES OF AID

The following sources are not based on financial need. Non-need-based loans are limited to the cost of education less other financial aid, or the annual loan limits, whichever is less.

Federal Direct Unsubsidized Loans. These loans are available to students who are enrolled at least half-time and who are not eligible for or were partially eligible for the Federal Direct Subsidized Loan. Terms and limits are the same as Federal Direct Subsidized Loans, except the student is charged interest on the loan from the date funds are disbursed.

For independent undergraduate and graduate students, the loan limits are higher than the Federal Direct Loan maximums. Freshmen and sophomore independent students may receive up to $4,000 in additional unsubsidized loans, juniors and seniors up to $5,000, and graduate students up to $10,000. Students should complete and submit the FAFSA and contact the Office of Financial Aid to apply.

Federal Direct Parent Loans for Undergraduate Students (PLUS). These loans are for parents of dependent students enrolled in at least six semester hours. Monies come from the federal government. This loan is not based on financial need, but a credit check is required. The variable interest rate adjusts every October 1, and is capped at 9%. The loan limits are up to the cost of education, less other aid, per student. Repayment of the principle and interest begins 60 days after the loan is fully disbursed. Contact the Office of Financial Aid to apply.

Alternative Loans. Available from a variety of private lenders. Principal and interest may be deferred while in school, and a co-signer is usually required. Contact the Financial Aid Office.

Veterans Programs. Contact the Veteran’s Administration about programs for veterans and dependents.

Valparaiso University Loans. Limited, low interest loans are administered by Valparaiso University. The amounts vary. Contact the Office of Financial Aid for details.

Academic Management Services, Inc. This service offers an insured monthly payment plan. A $55 annual participation fee is charged to participants. Contact Academic Management Services, Inc., 50 Vision Blvd., East Providence, RI 02914 (Phone: 401-235-1202 or 1-800-635-0120 or 410-631-1290).

Vocational Rehabilitation. Under the provision of Public Law 565, the federal government and the State of Indiana jointly provide funds for scholarship grants-in-aid to students who have a physical or mental impairment which constitutes a vocational handicap. The State Vocational Rehabilitation Division is responsible for the determination of the grants.

LOCN REPAYMENT INFORMATION

Sensible borrowing can not only help pay for college but also help establish a good credit history. Similarly, not making regular payments can result in a poor credit rating or even default status on student loans. To estimate future repayment obligations for student loans, use the factors listed below, multiplied by each $1,000 in debt, to estimate a ten year repayment amount. For example, the estimated monthly payment on $20,000 in Direct Loans at 4 percent interest would be $10.12 X 20 or $202.40. These results are estimates only; many programs have minimum monthly payments, and the Perkins program is usually repaid in quarterly installments. In addition, extended payment plans and income-contingent plans are available.

Factors: 4 percent interest, 10.12
5 percent interest, 10.61
6 percent interest, 11.61
8 percent interest, 12.13

Federal Direct Loan borrowers will be notified by the Direct Loan Servicing Center about repayment of loans. There are a variety of repayment options and options for deferring repayment, including community service, Peace Corps Service, and service under the Domestic Volunteer Service Act of 1973.

PAYMENT OF FINANCIAL AID

Most aid is divided and credited to student accounts in equal amounts for each semester. Most aid is ready to disburse at the beginning of each semester, although the actual date that funds are disbursed varies and no aid can be disbursed until all requested documentation has been submitted to the Office of Financial Aid. Aid is credited regularly throughout the semester. Students must be enrolled for the sufficient number of credits (according to the requirements of each program) in a semester to receive financial aid.

Students whose financial aid exceeds the University charges for the semester, may request a refund check from Student Accounts. It is each student’s responsibility to verify semester charges, financial aid credits, and refund check amounts for accuracy.

Students receive work-study awards as a direct deposit to their financial institution every two weeks for hours worked in the previous pay period, not as a credit on their student account.

Financial aid for students who withdraw from Valparaiso University will be adjusted based on the University’s refund policy. Specific information may be found in the Refund Policy section of this catalog.

SPECIAL STUDENTS

Certain restrictions apply to financial aid for students who are considered to have "special" status. These are students in certification programs such as teacher/diakonial certification programs or students who have earned a bachelor’s degree and return to school to enroll in undergraduate courses necessary as prerequisites to specific graduate programs. In any case, the student is eligible only for Federal (Unsubsidized or Subsidized) Direct and PLUS loans or employment. Not all certified programs are eligible for loans. It is advised that students with "special student" status meet with a financial aid counselor for detailed information.

OFF-CAMPUS STUDY

Students enrolled in an off-campus program, including study abroad programs, which are approved for credit by Valparaiso University, are eligible to apply for federal and university financial aid.

EXIT INTERVIEWS

Prior to graduation, leaves of absence, or withdrawal from the University, students who have received financial aid must participate in separate interviews for Federal Direct Loans and Perkins Loans.

APPEAL PROCEDURE

A review of any decision concerning a financial aid package may be requested. First, contact the Office of Financial Aid. If the outcome of the initial review is unsatisfactory, then a case review by the Financial Aid Appeals Committee may be requested. If the decision of the Financial Aid Appeals Committee is unsatisfactory, then an appeal may be presented to the Vice President for Admissions and Financial Aid. The decision of the Vice President is final.

FINANCIAL AID REFUND POLICY

If a student is due a refund under the Valparaiso University refund policy, and the student has received any financial aid other than Federal Work-Study, part of the refund must be returned to the sponsoring aid programs. The amount of refund is determined in accordance with the University refund policy.
STANDARDS OF SATISFACTORY ACADEMIC PROGRESS POLICY

Financial Aid recipients must maintain minimum standards of satisfactory academic progress for receipt of federal, state, and most Valparaiso University aid programs. All students receiving financial assistance must maintain matriculated status in a degree program. Regulations require a maximum time frame for degree completion, a quantitative measurement (credits earned toward a degree), and a qualitative measurement (cumulative grade point average). These three criteria are checked at the end of each academic year in May to determine whether students are maintaining satisfactory academic progress.

UNDERGRADUATE STUDENTS

Graduate and Law Students should refer to the Graduate and Law Bulletins for specific policy requirements.

Time Frame Measurement. Students may attempt up to 150 percent of the hours required for a bachelor’s degree. The 150 percent cap is the maximum limit according to federal regulations. The actual credit hour limit may vary depending on the requirements of each degree program. Most programs require 124 hours: for those programs the maximum attempted hours allowed is 186. Other programs, including music, engineering, nursing, and business degrees require more than 124 hours; therefore the maximum number of attempted hours allowed would be greater.

All attempted hours at Valparaiso University, including regular semesters and summer sessions, as well as any credits transferred from other schools, will apply toward the 150 percent.

Quantitative Measurement. To comply with the 150 percent time frame requirement, students must complete at least two thirds (2/3) of all Valparaiso University hours attempted with a passing grade. At the end of each academic year, each student’s Valparaiso University total hours completed will be compared to the Valparaiso University total hours attempted to determine whether they are meeting this requirement.

Qualitative Measurement. Minimum cumulative grade point average standards are as follows:

| Freshmen (less than 24 hours completed) | 1.65 |
| Sophomores (24 to 55 hours completed)  | 1.75 |
| Junior and above (56 or more hours completed) | 2.00 |

Incompletes, withdrawals, repeated courses, and non-credit remedial courses. Incompletes and withdrawals will count as hours attempted but not completed. If incompletes are later completed, they will be reflected when progress is again checked, or sooner if the student appeals. Repeated courses will not add to total hours attempted or hours completed; the grade will simply be replaced. The new grade will be included in the grade point average calculation, which will be considered when progress is again checked, or sooner if the student appeals.

Valparaiso University does not offer non-credit remedial courses.

Appeals and reinstatement. Students whose academic progress is not in compliance with these standards will be notified in writing after the student has satisfied that their eligibility for aid has been terminated. They will also be advised of the appeal and reinstatement policy at that time.

Students may appeal termination of their financial aid eligibility based on extenuating circumstances, which may include illness, death in the family, other circumstances beyond the student’s control, or special academic circumstances. If the appeal is approved, the student will normally have one semester to attain grade point average and completed credit hour standards specified by the appeals committee. Students who do not appeal, or whose appeal is denied, will not regain financial aid eligibility until the semester after they have attained the appropriate grade point average and completed credit hour standards. The student should contact the Office of Financial Aid to initiate reinstatement.

Students who do not meet satisfactory progress and what happens if he or she is not.

To be fully informed of the terms and provisions of loan payments, including typical repayment schedules.

To appeal any decisions relating to the determination of financial aid eligibility.

Financial Aid, Scholarships, Loan Funds

STUDENT FINANCIAL AID RIGHTS

1. To know what financial assistance is available, including information on all federal, state, and institutional financial aid programs.
2. To know the procedures and deadlines for submitting applications for each available financial aid program.
3. To know how the institution selects aid recipients.
4. To know how and when payments will be made and to know the refund policy for students who withdraw.
5. To request a review of the financial aid package should there be changes in the family’s ability to meet costs of attendance.
6. To know how the institution determines whether the student is making satisfactory progress and what happens if he or she is not.
7. To be fully informed of the terms and provisions of loan payments, including typical repayment schedules.
8. To appeal any decisions relating to the determination of financial aid eligibility.

Donated and Endowed Scholarships

These scholarships are funded by corporations, foundations, churches, organizations, and individual friends of Valparaiso University. Donors may provide annual funds, called Donated Scholarships, or establish Endowed Scholarships where the earnings from the funds are used to provide assistance to students. In most cases, donated and endowed scholarships are used to fund Valparaiso University Gift Awards and Academic Scholarships.

APPLICATION REQUIRED

Students should contact the indicated department or the Office of Financial Aid for further information about the following scholarships:

- Thrivent Financial for Lutherans Scholarships, All College and Lutheran Campus Scholarships for Thrivent certificate holders.
- Oliver W. and Emma W. Allen Scholarship. Awarded annually to students, selected through a special process, preparing for church professions within the Lutheran church ordained ministry, commissioned ministries, or
lary teachers). Preference is given to students preparing to enter Lutheran seminaries, then to those preparing to attend seminaries of other church bodies or university-based divinity schools leading to ordination in the Lutheran church or to placement in other, more rostrable, full-time Lutheran ministry. Students of other church bodies, preparing for similar ministries in their own bodies, may also be eligible as funds permit. Application forms are available from the Office of Admissions.

A • Am • ent-Brenner Endowed Scholarships in Nursing, Preference to graduate students from Lutheran colleges in the St. Louis area studying nursing, preparing for admission to medical schools, or preparing for any profession that provides direct health care services (physical therapy, occupational therapy, and a variety of positions in patient care). Application forms are available from the Office of Admissions.

Valparaiso University Guild Past National Officer’s Endowed Scholarship. initiated by the Past National Presidents and Executive Directors in the name of all the women who have served as presidents, vice presidents, secretaries, treasurers, and executive directors of the Guild, this scholarship is awarded to two juniors with a 3.00 grade point average at the University. These $3,000 scholarships are available to seniors only to students belonging to congregations affiliated with the Lutheran Church and secondly with The Lutheran Church-Missouri Synod. Scholaristic ability and financial need will be major criteria. Application forms are available from the Office of Admissions.

Dow Chemical Undergraduate Scholarships. Annual awards to outstanding high school students electing to work toward a B.S. in Chemistry. Preference to candidates who intend to pursue a Ph.D. Renewable during four years at Valparaiso University. Awards based on merit. Contact the Chemistry Department.

Shirley Ayers Jud Memorial Endowed Guild Scholarship. Funded by memorials to Shirley Jud and to her husband, Dr. Henning Jud. Matching gifts in 1989, 1990, 1991, this scholarship will be awarded to a freshman student with academic ability. The scholarship may be renewed if the recipient maintains a 3.0 or better grade point average. This scholarship recipient will be chosen from funds created by students attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Scholarship recipients are notified of Datatel in May.

Indiana Nursing Scholarship Fund Program. Administered by the State Student Assistance Commission of Indiana. Eligible student must be a Valparaiso University senior with preference for a student majoring in nursing, attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Student must apply each year. Application forms available in the Office of Financial Aid.

Indiana Minority Teacher and Special Education Services Scholarship Program. Administered by the State Student Assistance Commission of Indiana. Eligible student must be a Valparaiso University senior with preference for a student majoring in education, attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Student must apply each year. Application forms available in the Office of Financial Aid.

The Donna Spanopoulos Memorial Scholarship. Awarded to senior students enrolled in the College of Nursing at Valparaiso University, who express an interest in specializing in pediatric care and have demonstrated clinical and academic aptitude.

Valparaiso University Guild Endowed Scholarship. New scholarships will be awarded annually to freshmen students with financial need and with academic ability. The scholarships may be renewed if the recipients maintain a 3.00 or better grade point average. The scholarship recipients will be sons or daughters of Guild members. Application forms must be made for the scholarship. Application forms are available from the Office of Admissions or from the Guild Office.

Datatel Scholars Foundation Scholarships. Sponsored by Datatel Inc, the leading independent provider of information management systems to institutions of higher learning, for eligible students attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Scholarship recipients are notified of Datatel in May.

Indiana Nursing Scholarship Fund Program. Administered by the State Student Assistance Commission of Indiana. Eligible student must be a Valparaiso University senior with preference for a student majoring in nursing, attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Student must apply each year. Application forms available in the Office of Financial Aid.

Indiana Minority Teacher and Special Education Services Scholarship Program. Administered by the State Student Assistance Commission of Indiana. Eligible student must be a Valparaiso University senior with preference for a student majoring in education, attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Student must apply each year. Application forms available in the Office of Financial Aid.

Indian • a • Nursing Scholarship Fund Program. Administered by the State Student Assistance Commission of Indiana. Eligible student must be a Valparaiso University senior with preference for a student majoring in nursing, attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Student must apply each year. Application forms available in the Office of Financial Aid.

Indian • a • Minority Teacher and Special Education Services Scholarship Program. Administered by the State Student Assistance Commission of Indiana. Eligible student must be a Valparaiso University senior with preference for a student majoring in education, attending a Datatel client university. Scholarship amount ranges from $700 to $2,000, based on merit. Student must apply each year. Application forms available in the Office of Financial Aid.
Financial Aid, Scholarships, Loan Funds

- Financial Aid, Scholarships, Loan Funds
- Earl Daniel Erickson Scholarship
- Dr. Louie Foster Scholarship
- Paul W.D., Jr. and Calista Enlund Scholarship
- Bette J. Gearing Endowed Scholarship
- Erwin E. Goehring Endowed Scholarship
- Earl John D. Gearing Endowed Scholarship
- Erna J. Erickson Scholarship
- Margaret H. Hoffman Scholarship (PACT)
- Richard J. Hoerger Endowed Scholarship
- Bettie J. Gearing Endowed Scholarship
- Calista Enlund Scholarship (PACT)
- John A. Koeppe Memorial Endowed Scholarship
- Walter C. and Elizabeth K. Klug Memorial Endowed Scholarship
- Dr. and Mrs. Max K. Mallon Endowed Scholarship
- Robert A. Machary Memorial Endowed Scholarship
- Orval L. and Maud L. Main Memorial Endowed Scholarship
- Lynnette and Norman Lukenes Endowed Scholarship
- LaVonne and Robert B. Nagel Endowed Scholarship
- National Association of Purchasing Management Scholarship
- National Association of Purchasing Management, Northwest Indiana Scholarship in Business
- Mr. and Mrs. Martin J. Nehring Endowed Scholarship
- Shirley J. Neitzel Memorial Organ Scholarship
- Financial Aid, Scholarships, Loan Funds
- Earl John D. Gearing Endowed Scholarship
- Erna J. Erickson Scholarship
- Margaret H. Hoffman Scholarship (PACT)
- Richard J. Hoerger Endowed Scholarship
- Bettie J. Gearing Endowed Scholarship
- Calista Enlund Scholarship (PACT)
- John A. Koeppe Memorial Endowed Scholarship
- Walter C. and Elizabeth K. Klug Memorial Endowed Scholarship
- Dr. and Mrs. Max K. Mallon Endowed Scholarship
- Robert A. Machary Memorial Endowed Scholarship
- Orval L. and Maud L. Main Memorial Endowed Scholarship
- Lynnette and Norman Lukenes Endowed Scholarship
- LaVonne and Robert B. Nagel Endowed Scholarship
- National Association of Purchasing Management Scholarship
- National Association of Purchasing Management, Northwest Indiana Scholarship in Business
- Mr. and Mrs. Martin J. Nehring Endowed Scholarship
- Shirley J. Neitzel Memorial Organ Scholarship
Financial Aid, Scholarships, Loan Funds

- J. Melvin and Nellie G. Nelson Endowed Psychology Scholarship
- J. Newton Memorial Endowed Scholarship (PACT)
- Nickless Family Scholarship
- Marilyn Niequist Memorial Endowed Scholarship
- Nicholas H. and Margarette Lilly Noyes Endowed Scholarship Fund
- Nuechterlein Endowed Scholarship (PACT)
- Audrey C. and Duane Nuechterlein Donated Scholarship
- Carl and Arnold C. Nuechterlein Endowed Scholarship
- Duane and Audrey Nuechterlein Deaconess Scholarship
- Joel S. Oberman Endowed Basketball Scholarship
- Obert Family Endowed Scholarship
- Arnold Oestmann Endowed Scholarship
- Eleanor Davis Oxenmann Scholarship for the School of Law
- Ohio Annual Scholarship
- Nicholas Arnold Endowed Scholarship
- Helen Walter Endowed Scholarship
- Mollie V. Our Savior Scholarship
- George S. and Mrs. C. Pauling Endowed Scholarship
- Omega Student Outstanding Achievement in Accounting Award at Valparaiso University
- George S. Olive and Company Outstanding Achievement in Accounting Award at Valparaiso University
- Ohio Annual Endowed Scholarship
- Rev. Armin and Evelyn Oldsen Endowed Scholarship
- Dr. Craig Olejniczak Power Engineering Scholarship
- formerly IEEE
- George S. Olive and Company Outstanding Achievement in Accounting Award at Valparaiso University
- Our Savior Lutheran Church Congregation of Raleigh, North Carolina, Endowed Scholarship (PACT)
- Pacific Hills Lutheran Church, Omaha, Nebraska, Endowed Scholarship
- Mollie V. Page Endowed Scholarship
- Pauling Music Endowed Scholarship (PACT)
- Professor Charles G. Peifer and John Van Alstyne Peifer Memorial Endowed Scholarship
- Peters Family West Michigan Endowed Scholarship
- Gilbert A. Peters Endowed Scholarship
- Arthur F. Peterson Endowed Scholarship
- Margaret A. Pfeiffer Endowed Scholarship
- Ella Pfeiffer Endowed Scholarship
- Irma Pflueger Memorial Endowed Lutheran Deaconess Scholarship (PACT)
- Phi Delta Theta Class of '84 Endowed Scholarship (PACT)
- Phi Mu Alpha Endowed Scholarship (PACT)
- Paul F. Phipps Merit in English Endowed Scholarship (PACT)
- Hattie Love Pierce Endowed Scholarship
- Pilgrim Evangelical Lutheran Church of Detroit Memorial Endowed Scholarship
- Edward and Marie Plucinski Scholarship
- Arthur H. Popp Endowed Memorial Scholarship
- Arthur E. Pohlmam Endowed Scholarship
- Pohlmam Family Endowed Scholarship
- Paul V. and Evelyn A. Popitz Scholarship
- The Rodney B. Poppe Endowed Scholarship
- Porter County Cancer Society Endowed Scholarship (PACT)
- Professor Henry W. and Laura M. Prahl Scholarship
- Mrs. Hazel Predesh Memorial Endowed Scholarship
- Presidential Endowed Scholarship for Minorities
- Donald F. Priddle Donated Scholarship
- Vernon F. and Katherine H. Raddle Endowed Scholarship
- Hermann R. Rahn Memorial Scholarship
- Emma and William Rakowsky Memorial Endowed Scholarship
- Elizabeth Raney Endowed Scholarship
- Charles and Elizabeth Rau Scholarship
- Redeemer Lutheran Church, South Bend, Indiana, Endowed Scholarship (PACT)
- Rev. and Mrs. Arthur L. Reinke and the Rev. and Mrs. Augustus Reinke Memorial Endowed Scholarship
- Reutlinger Memorial Scholarship
- Alton F. Riethermeier Memorial Endowed Alumni Scholarship (PACT)
- Mr. and Mrs. Carl Rittberger Scholarship
- Sandra Felton Roberts Memorial Endowed Nursing Scholarship (PACT)
- Walter and Dorothy Rogosheske Scholarship (PACT)
- Cora H. Rosin Memorial Endowed Scholarship
- Walderm M. Roth Memorial Endowed Scholarship
- Leona Rotzoll and Elise Skusa Memorial Endowed Scholarship
- Walter C. and Gudrun M. Rubke Endowed Scholarship
- Adele Ruettgers Endowed Scholarship
- Noah B. Ruff Memorial Endowed Scholarship
- August and Helene Ruhe Endowed Scholarship
- Bernice Lilla Ruprecht Endowed Scholarship (PACT)
- Judy Satkas and Julie Kline Memorial Endowed Scholarship
- James Savage Endowed Scholarship Fund
- Walter W. Schantz Endowed Scholarship
- Frederick A. Schaper Endowed Memorial Scholarship
- Philip Scheid Family Endowed Scholarship
- Gilbert L. Schaus Scholarship
- Lee R. Schleider Memorial Endowed Scholarship
- Walter E. Schmalz Memorial Endowed Scholarship (PACT)
- Jane Conway Schmeckpeper Endowed Scholarship
- Dr. Robert V. Schnabel Endowed Scholarship
- Mr. and Mrs. Henry J. Schneider Endowed Scholarship
- Richard A. Schoenbohm Endowed Music Scholarship (PACT)
- Scholarship in Law for Jewish Students
- Dr. Scholl Foundation Scholarship
- Paul Schroeder Endowed Scholarship
- Pastor Carl (Pat) and Bert Schuette Endowed Scholarship (PACT)
- Rev. and Mrs. Walter G. Schultz Endowed Scholarship
- Andrew and Margarette Schutz Endowed Scholarship Fund (PACT)
- Dorothy Schurmancher Scholarship
- John H. Schutt Memorial Scholarship
- The Schwab Family Scholarship Fund
- Dana B. Schwanholtz Memorial Endowed Scholarship (PACT)
- Albert F. and Miriam B. Schonber Endowed Scholarship
- Elmer Seebeck Memorial Endowed Scholarship
- Susan E. Seebier Memorial Endowed Scholarship
- Ray and Marie Seegers Family Scholarship
- Seuell Endowed Scholarship
- Dr. and Carol S. Seyboldt Endowed Scholarship
- Mr. and Mrs. Hugh O. Shorb Endowed Scholarship
- Vera L. Sieb Endowed Scholarship
- Sigma Phi Epsilon Undergraduate Endowed Scholarship
- Sigma Tau Gamma Undergraduate Endowed Scholarship
- Helen Slaback Memorial Endowed Scholarship
- Byron Smith Memorial Donated Scholarship
- J. Howard Smith Endowed Scholarship
- Reutlinger Memorial Scholarship
- St. John Lutheran Church, Lombard, Illinois, Endowed Scholarship (PACT)
- St. John's Lutheran Church, Mishawaka, Indiana, Endowed Scholarship (PACT)
- Edward P. Staede and Amanda Hall Staede Endowed Scholarship
- Arthur and Cecelia Stamm Endowed Scholarship
- C. V. Starr Scholarship Fund
- Rev. Martin Th. Stegere Endowed Scholarship
- J. L. Stember Family Memorial Endowed Scholarship
- Frederick A. Stendell and Harry E. Stendell Endowed Scholarship
- Paul Stover Endowed Scholarship
- Alvin A. and Marion S. Stredrer Endowed Scholarship
- Donald V. Strieder Endowed Scholarship
- Mr. and Mrs. Herbert F. Strieder Endowed Scholarship
- Fred L. and Selma A. Strieder Memorial Endowed Music Scholarship (PACT)
- Ida S. Strieder Memorial Endowed Scholarship
- George Striumbu Memorial Endowed Arts Scholarship (PACT)
- William R. and Jeannette Stutz Endowed Scholarship
- Margaretta Sackville Tangerman Memorial Endowed Scholarship
- Mr. and Mrs. Paul E. Tegge Memorial Endowed Scholarship
- Lawrence E. Teich Endowed Scholarship
- Louis Thoeming Endowed Scholarship
- John David Thomas Endowed Scholarship
- Bertha S. Tietjen Endowed Scholarship
- Rev. Kenneth J. Timm Endowed Scholarship
- Suzanne Timmons Donated Scholarship
- Laura E. Traue Endowed Scholarship
- Doreen and John T. Traue Endowed Scholarship
- Margot Ann Uehling Endowed Scholarship
- George C. Uhlein Scholarship
- Dr. and Mrs. H. L. Ullrich Endowed Scholarship
- Dr. Donald St. John Endowed Scholarship
- Wilbur and Gertrude Urbm Memorial Scholarship
- William E. Urschel Endowed Scholarship
- Valparaiso University Alumni and Friends of St. John's Church, Mishawaka, Indiana, Endowed Scholarship (PACT)
- Valparaiso University Board of Directors Endowed Scholarship (PACT)
- Valparaiso Women's Club Endowed Scholarship
- Valparaiso University College of Nursing Endowed Scholarship (PACT)
- Valparaiso University Guild Scholarship
- Glenn S. and Dawn J. Vician Donated Scholarship
- Merlyn and Judith Voce Donated Scholarship
- Ed L. Voel Endowed Scholarship
- Theodore H. and Paula Vogel Endowed Scholarship
- Donald W. and Anna Waldschmidt Memorial Scholarship
- F. G. Walker Endowed Scholarship
- David J. Walton Memorial Endowed Scholarship
- Frances Tilton Weaver Scholarship - Law
- Florence E. and John F. Weck Scholarship
- William Endowed Scholarship
- Dr. and Mrs. J. Frederic Wenchel Memorial Endowed Scholarship
- Walter G. Wendland Endowed Scholarship
- Carl O. Schriver Endowed Law Scholarship
- Clara and Spencer Werner Endowed Scholarship
- Mr. and Mrs. L.W. Werner Endowed Scholarship
- Janet Wiesemann Scholarship-Loan Fund
- Edith M. Will Endowed Scholarship
- Otherine Wilson Endowed Scholarship
- Wisconsin Endowed Merit Award
- Mathew Witter Memorial Endowed Scholarship (PACT)
- Charles W. Wolf Memorial Endowed Scholarship
- Matilda E. Wolff Memorial Endowed Scholarship
- Gilbert R. and Vivian P. Wolter Endowed Scholarship
- Zion Lutheran Church, Kalamazoo, Michigan, Endowed Scholarship (PACT)
- Zuehlke Endowed Scholarship

Financial Aid, Scholarships, Loan Funds

Loan Funds

- The Garland Loan Fund. Loans for students majoring in the sciences or mathematics. These will be non-interest bearing loans.
- Garman Loan Fund. A loan fund has been established by Benjamin L. Garman to help students who cannot qualify for a scholarship but who must have financial assistance or those with scholarships who need help.
- Fred Smoker Student Loan Fund. Administered by the Valparaiso University Alumni Association, this fund was established in January, 1965, and provides funds for loans to full-time students who are residents of Porter County, Indiana.
- Nellie Winifred Cheney Overton Memorial Loan Fund. This fund was established by Mr. William J. Overton as a memorial to Mrs. Overton. The income from the fund is available for loans to students from Lake County, Indiana.
- Henry Strong Educational Foundation. Provides loans to qualified full-time upperclass students under thirty years of age.

*LOAN REPAYMENT TERMS*

Each of the loan programs contains specific repayment terms and conditions which are a part of the promissory note the student signs upon receipt of the loan fund. Students are responsible for being aware of the various loan provisions and thus should review the terms of the repayment obligation prior to accepting funds under these loan programs.
UNIVERSITY PERSONNEL

Full-Time Faculty 2002-2003

Kurt Douglas Acton, Ph.D., Associate Professor of Education; Central Michigan University (B.S., 1968; M.S.A., 1972): The University of Illinois at Urbana-Champaign (Ph.D., 1983)

Mark Leslie Adams, J.D., Professor of Law; Williams College (B.A., 1983); The University of Chicago J.D., 1986)

James William Albers, Th.D., Professor of Theology; Concordia Seminary, St. Louis (M.Div., 1963; S.T.M., 1964; Th.D., 1972)

Zuhdi Y. Aljibesh, Ph.D., Associate Professor of Civil Engineering; The University of Toledo (B.S.C.E., 1980; M.S.C.E., 1987; Ph.D., 1994)

Elise Marta Alverson, M.S.N., Lecturer in Nursing: St. Louis University (B.S.N., 1972); Ball State University (M.S.N., 1984)

Debra Collins Ames, Ph.D., Associate Professor of Foreign Languages and Literatures; Holy Cross College (B.A., 1983); University of Virginia (M.A., 1982; Ph.D., 1987)

Richard A. Amrhein, M.L.S., University Librarian with rank of Associate Professor; Eastern Illinois University (B.M., 1970; M.A., 1981); Baylor University (M.A., 1980); Rutgers University (M.L.S., 1990)

On Half Sabbatical Leave, Fall and Spring Semesters

Resigned December 31, 2002

Resigned January 7, 2003

President Harr

Katharine Antommaria (Ingham), Ph.D., Associate Professor in the College of Arts and Sciences; Lake Erie College (B.A., 1958); Massachusetts General Hospital (R.D., 1959); University of Pittsburgh (M.S., 1961; Ph.D., 1969)

Daniel Lee Arskelin, Ph.D., Professor of Psychology; Bowling Green State University (B.S., 1974; M.A., 1976; Ph.D., 1978)

Roy A. Austensen, Ph.D., Professor of History; Provoit and Vice President for Academic Affairs; Concordia College, River Forest (B.S., 1963); The University of Illinois at Urbana-Champaign (M.A., 1964; Ph.D., 1969); University of Vienna

Larry Robert Baas, Ph.D., Professor of Political Science; University of Wisconsin, Whitewater (B.Ed., 1968); Kent State University (M.A., 1969; Ph.D., 1976)


Richard Lawrence Balkema, Ph.D., Professor of Political Science; Western Michigan University (B.A., 1962; M.A., 1963); Southern Illinois University (Ph.D., 1971)

Teresa Marie Bals-Elsholm, Ph.D., Assistant Professor of Geography and Meteorology; University of Nebraska—Lincoln (B.S., 1987); Texas Tech University (M.S., 1990); State University of New York at Albany (Ph.D., 2002)

Michael Joseph Barrett, Ph.D., Assistant Professor of Mechanical Engineering; Purdue University (B.A.A.E., 1989; University of Houston (M.S.M.E., 1994; Ph.D., 1996)

Mark Walter Bartusch, Ph.D., Assistant Professor of Theology; Valparaiso University (B.A., 1986); Lutheran School of Theology (M.Div., 1990; Th.M., 1996; Ph.D., 2000)

James Phillip Beasley, M.A.L.S., Instructor in the College of Arts and Sciences; Pensacola Christian College (B.A., 1992); Valparaiso University (M.A.L.S., 1997)

Martin William Berg, Ph.D., Professor of History; St. Olaf College (B.A., 1969); Tulane University (M.A., 1962; Ph.D., 1966)

James A. Bernard, Jr, Ph.D., Associate Professor of Economics; Manhattan College (B.B.A., 1965); University of Notre Dame (Ph.D., 1972)

Bruce Gilbert Berner, LL.M., Professor of Law; the Louis and Anna Seegers Professor of Law; Associate Dean, School of Law; Valparaiso University (B.A., 1965; LL.B., 1967); Yale University (LL.M., 1978)

John Paul Bernthal, D.M.A., Associate Professor of Music; Valparaiso University (B.M., 1976); Eastern School of Music, University of Rochester (M.M., 1972); The University of Illinois (D.M.A., 1982)

Karen S. Berrier, Ph.D., Assistant Professor of Foreign Languages and Literatures; Miami University (B.A., 1971); Indiana University (M.A., 1973; Ph.D., 1980)

Nandini Bhattacharya, Ph.D., Associate Professor of English; Presidency College (B.A., 1988); University of Rochester (M.A., 1991; Ph.D., 1992)

Suryaji Bohna, Ph.D., Visiting Professor of Mechanical Engineering; Utah State University (B.S., 1960); New Mexico State University (M.S., 1961); Michigan Technological University (Ph.D., 1968)

Jennifer Irene Hellmers Bjornstad, Ph.D., Assistant Professor of Foreign Languages and Literatures; St. Olaf College (B.A., 1981); University of Wisconsin—Madison (M.A., 1994; Ph.D., 2001)

Robert Frank Blomquist, J.D., Professor of Law; University of Pennsylvania (B.S., 1973); Cornell University (J.D., 1977)

Alan Bloom, Ph.D., Lecturer in History; University of California—Santa Barbara (B.A., 1987); Duke University (M.A., 1995; Ph.D., 2001)

Ivan Edward Bodensteiner, J.D., Professor of Law; Loras College (B.A., 1986); University of Notre Dame (J.D., 1989)

Joseph Andrew Bogner, D.M.A., Associate Professor of Music; Valparaiso University (B.M., 1994); The University of Illinois at Urbana-Champaign (M.A., 1996; D.M.A., 2000)

J. Arthur Bond, Ph.D., Assistant Professor of English; Beloit College (B.S., 1987); Indiana University (M.A., 1990; Ph.D., 1999)

Allan Robert Brandhorst, Ph.D., Professor of Education; University of Missouri—Columbia (B.S.Ed., 1963; M.Ed., 1970; Ph.D., 1973)

On leave of absence

Resigned August 9, 2003

On leave of absence, Spring Semester

On Half Sabbatical Leave, Fall and Spring Semesters

Paul Herman Bristzke, J.D., Ph.D., Professor of Law; Lake Forest College (B.A., 1962); University of Wisconsin (J.D., 1969); University of London (Ph.D., 1979)

Janet Marie Brown, R.N., Ph.D., Professor of Nursing; Dean, College of Nursing; Indiana University (B.S.N., 1969); St. Xavier College (M.S.N., 1983); University of Wisconsin, Milwaukee (Ph.D., 1989)

Lorraine S. Brugh, Ph.D., Assistant Professor of Music; the Kruse Fellow Organ; Northwestern University (B.M., 1973; M.M., 1974; Ph.D., 1988); Garrett-Evangelical Theological Seminary (M.T.S., 1994)

Marcia JoAnn Bunje, Ph.D., Associate Professor of Humanities and Theology in Christ College; St. Olaf College (B.A., 1976); The University of Chicago (M.A., 1979; Ph.D., 1986)

Elizabeth Ann Burow-Flak, Ph.D., Assistant Professor of English; Augustsburg College (B.A., 1966); University of Texas at Austin (Ph.D., 1997)

Michael J. Bushbaum, J.D., M.Lib., Associate Library for Access Services with rank of Associate Professor; University of Nevada, Reno (B.S., 1980); Lewis and Clark College (J.D., 1993); University of Washington (M.Lib., 1994)

Edward J. Byrne, Ph.D., Professor of English; Brooklyn College (B.A., 1974; M.A., 1976); University of Utah (Ph.D., 1983)

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Resigned August 9, 2003

On Half Sabbatical Leave, Fall and Spring Semesters

On leave of absence, Fall Semester

On leave of absence, Spring Semester

On leave of absence, resigned February 17, 2003

On Sabbatical Leave, Spring Semester

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UNIVERSITY CALENDAR FOR

2003-2004

For the Colleges of Arts and Sciences, Business Administration, Engineering and Nursing. For the Law School, consult the Law School Bulletin.

SUMMER I 2003
May 20, Tuesday. Instruction begins.
May 26, Monday. No classes.
June 27, Friday. Summer Session I closes.
June 30, Monday, 12 Noon. Deadline for all grades.

SUMMER II 2003
June 30, Monday, Instruction begins.
July 4, Friday. No classes.
August 8, Friday, Summer Session II closes.
August 11, Monday, 12 Noon. Deadline for all grades.

FALL SEMESTER 2003
August 23, Saturday, 8:00 a.m. Orientation for freshmen begins.
August 23, Saturday, Registration for freshmen, transfer students, and other students who did not participate in advance registration.
August 24-25, Sunday-Monday. Registration Confirmation.
August 26, Tuesday, 8:00 a.m. Instruction begins.
August 26-October 17. Dates for first half short courses.
September 2, Tuesday, 5:00 p.m. Deadline for adding first half short courses.
September 2, Tuesday, 5:00 p.m. Deadline for late registration for fall semester.
September 2, Tuesday, 5:00 p.m. Deadline to add a course or drop a course without grade of W. All requests for adding a course during the official drop-add period (first six class days) shall remain at the discretion of the appropriate academic dean or department chair.
September 9, Tuesday, 5:00 p.m. Deadline to file for S/U grade for first half short courses.
September 23, Tuesday, 5:00 p.m. Deadline to file for S/U grade for regular courses.
September 26, Friday, 5:00 p.m. Deadline for withdrawing from first half short courses with grade of W.
October 1, Wednesday. Last day to file application of candidacy for the associate’s and bachelor’s degrees to be conferred in May or August, 2004.
October 4, Saturday. Homecoming Day.
October 13, Monday. Last date for partial refund of University charges.
October 15, Wednesday, 5:00 p.m. Deadline for arranging course intensification.
October 16-17 Thursday-Friday. Fall Break. No classes.
October 20-December 12. Dates for second half short courses.
October 22, Wednesday, 5:00 p.m. Deadline for adding second half short courses.
October 25, Saturday. Parents Day.
October 29, Wednesday, 5:00 p.m. Deadline for withdrawing from regular courses with grade of W.
November 3, Monday, 5:00 p.m. Deadline to file for S/U grade for second half short courses.
November 12, Wednesday, 5:00 p.m. Deadline for withdrawing from second half short courses with grade of W.
November 21, Friday, 6:30 p.m. Thanksgiving recess begins.
December 1, Monday, 8:00 a.m. Thanksgiving recess ends.
December 5, Friday. Last day for tests in courses of 3 credits or more. Last day to petition for change in date of final examinations.

DEADLINES
December 12, Friday, 5:00 p.m. Deadline to officially withdraw from the University for Fall Semester. Last day to file petitions to change registration.
December 12, Friday, 10:00 p.m. Instruction ends.
December 13, Saturday, Reading day.
December 14, Sunday. December Commencement Ceremony.
December 15, Monday, 8:00 a.m. Final examinations begin.
December 19, Friday, 5:30 p.m. Final examinations end. Semester ends.
December 22, Monday, Noon. Deadline for reporting all grades.

SPRING SEMESTER 2004
January 5, Monday. Orientation for new students; registration confirmation.
January 6, Tuesday, 8:00 a.m. Registration confirmation; registration for all new students, former students and students who did not participate in advance registration.
January 7, Wednesday, 8:00 a.m. Instruction begins.
January 7-March 15. Dates for first half short courses.
January 14, Wednesday, 5:00 p.m. Deadline for adding first half short courses.
January 14, Wednesday, 5:00 p.m. Deadline for late registration for spring semester.
January 14, Wednesday, 5:00 p.m. Deadline to add or drop without a grade of W a regular course. All requests for adding a course during the official drop-add period (first six class days) shall remain at the discretion of the appropriate academic dean or department chair.
January 19, Monday. Observation of Martin Luther King's Birthday.
January 23, Friday, 5:00 p.m. Deadline to file for S/U grade for first half short courses.
February 6, Friday, 5:00 p.m. Deadline for withdrawing from first half short courses with grade of W.
February 6, Friday, 5:00 p.m. Deadline to file for S/U grade for regular courses.
February 27, Friday, 5:00 p.m. Deadline for arranging course intensification.
February 27, Friday, 6:30 p.m. Spring recess begins.
March 15, Monday, 8:00 a.m. Spring recess ends.
March 16-May 4. Dates for second half short courses.
March 19, Friday, 5:00 p.m. Deadline for adding second half short courses.
March 23, Tuesday, 8:00 p.m. Deadline for withdrawing from regular courses with grade of W.
March 30, Tuesday, 5:00 p.m. Deadline to file for S/U grade for second half short courses.
April 1, Thursday. Last day to file application of candidacy for the associate’s and bachelor’s degrees to be conferred in December, 2004.
April 9, Good Friday. No classes.
April 14, Wednesday, 5:00 p.m. Deadline for withdrawing from second half short courses with grade of W.
April 27, Tuesday. Last day for tests in courses of 3 credits or more. Last day to petition for change in date of final examinations.
May 4, Tuesday, 5:00 p.m. Deadline to officially withdraw from the University for Spring Semester. Last day to file petitions to change registration.
May 4, Tuesday, 10:00 p.m. Instruction ends.
May 5, Wednesday. Reading day.
May 8, Thursday, 8:00 a.m. Final examinations begin.
May 11, Tuesday, 5:30 p.m. Final examinations end. Semester ends.
May 12, Wednesday, noon. Final grades for all candidates for all degrees.
May 14, Friday, 5:00 p.m. Deadline for reporting all other grades.
May 16, Sunday. 130th Annual Commencement

Certain other dates are observed annually by the University: Reformation Day, Ash Wednesday, and Ascension Day.
VALPARAISO UNIVERSITY

Location
Valparaiso, Indiana—Population 25,000
45 Miles Southeast of Chicago; 13 Miles South of Lake Michigan

Campus Size
310 Acres, 70 Buildings

Control
Independent

Religious Affiliation
Lutheran

Major Academic Divisions (Approximate Enrollments, Fall 2002)
College of Arts and Sciences—2015
College of Business Administration—420
College of Engineering—355
Christ College (Honors)—325
Graduate Division—230
Law School—515

ACCREDITATION

Accredited—The Higher Learning Commission; Member—North Central Association (All Programs), 30 North LaSalle Street, Suite 2400, Chicago, IL, 60602-2504; Tel: 312-263-0456; Fax: 312-263-7462; www.ncahigerlearningcommission.org

The American Chemical Society, 1155 Sixteenth St. NW, Washington, DC, 20036; Tel: 202-872-4600 or 1-800-333-9511; help@acs.org

National Council for Accreditation of Teacher Education, 2010 Massachusetts Ave NW, Suite 500, Washington, DC, 20036-1023; Tel: 202-466-7496; Fax: 202-296-6620; ncate@ncate.org

Indiana State Department of Education-Indiana Professional Standards Board, 251 East Ohio Street, Suite 201, Indianapolis, IN, 46204-2133; Tel: 317-232-9010; Fax: 317-232-9023

National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA, 20190; Tel: 703-437-0700; Fax: 703-437-6312

The Council on Social Work Education, 1600 Duke Street, Suite 300, Alexandria, VA, 22314-3421; Tel: 703-683-8080; Fax: 703-683-8099

AACSB International, 600 Emerson Road, Suite 300, St. Louis, MO, 63141-6762; Tel: 314-872-8507

The Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD, 21202; Tel: 410-347-7700; Fax: 410-625-2238

State of Indiana Health Professions Bureau-Indiana State Board of Nursing, 402 W. Washington St., Room 041, Indianapolis, IN, 46204; Tel: 317-232-2960; Fax: 317-232-4236

Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC, 20036-1120; Tel: 202-887-6791; www.aacn.nche.edu

The Association of American Law Schools, 1201 Connecticut Ave. NW, Suite 800, Washington, DC, 20036-2605; Tel: 202-296-8851; Fax: 202-296-8869; aals@aal.org

The American Bar Association, 750 N. Lake Shore Drive, Chicago, IL, 60611; Tel: 312-988-5000; info@abanet.org

MAJOR AFFILIATIONS
The American Association of Colleges of Nursing
The American Council on Education
The American School of Classical Studies at Athens
The American Schools of Oriental Research
The American Society for Engineering Education
The Associated New American Colleges
The Association of American Colleges and Universities
The Association of Graduate Liberal Studies Programs
The Association to Advance Collegiate Schools of Business
The Center for Research Libraries
The Council of Applied Masters Programs in Psychology
The Lutheran Education Association