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 1992)
College of Arts and Sciences—1830
Christ College (Honors)—250
College of Business Administration—430
College of Engineering—370
College of Nursing—370
Law School—560
Graduate Division—210

Accreditation
The North Central Association of Colleges and Schools (All Programs)
The American Chemical Society
National Council for Accreditation of Teacher Education
National Association of Schools of Music
The Council on Social Work Education
The Accreditation Board for Engineering and Technology
American Association of Collegiate Schools of Business
Indiana State Board of Nurses' Registration and Nursing Education
The National League for Nursing
The Association of American Law Schools
The American Bar Association
Indiana State Department of Education

Major Affiliations
The American Council on Education
The American School of Classical Studies at Athens
The Association of American Colleges
The Lutheran Education Association
The American Association of Colleges of Nursing
The American Society for Engineering Education
The American Assembly of Collegiate Schools of Business
The American Schools of Oriental Research
The Association of Graduate Liberal Studies Programs
The Center for Research Libraries
The Council of Applied Masters Programs in Psychology

Valparaiso University Information Operator—Call 219-464-5000

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ANNOUNCEMENTS FOR 1994-1995 SESSIONS

VALPARAISO UNIVERSITY BULLETIN (USPS 656-460)

Volume 68, July 1, 1994, Number 1

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.

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.

It is the policy of Valparaiso University to prohibit unlawful discrimination on the basis of sex, handicap, race, color, age, veteran status or national origin in its educational programs, admission policies, employment policies, financial aid or other school-administered programs and policies. This policy is enforced by applicable federal and state laws and regulations, including, but not limited to, Title IX of the Education Amendments of 1972, Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, and the Age Discrimination in Employment Act of 1967. Inquiries concerning the application of said federal regulations to this University may be referred to the University Compliance Director of Affirmative Action Plan.

Valparaiso University is authorized under federal law to enroll non-immigrant alien students.

### UNIVERSITY CALENDAR FOR 1994-1995

**SUMMER I 1994**
- May 17, Tuesday. Instruction begins.
- May 30, Monday. No classes.
- June 24, Friday. 5:00 p.m. Summer Session I closes.
- June 27, Monday. 12 Noon. Deadline for all grades.

**SUMMER II 1994**
- June 28, Tuesday. Instruction begins.
- July 4, Monday. No classes.
- August 5, Friday. 5:00 p.m. Summer Session II closes.
- August 8, Monday, 12 Noon. Deadline for all grades.

**FALL SEMESTER 1994**
- August 20, Saturday, 8:00 a.m. Orientation for freshmen begins.
- August 22-23, Monday and Tuesday, 8:00 a.m. Registration Confirmation.
- August 23, Tuesday, 8:00 a.m. Registration for freshmen, transfer students, former students and students who did not participate in advance registration.
- August 24, Wednesday, 8:00 a.m. Instruction begins.
- August 24-October 14. Dates for first half short courses.
- August 31, Wednesday, 5:00 p.m. Deadline for adding first half short courses.
- August 31, Wednesday, 5:00 p.m. Deadline for late registration for fall semester.
- August 31, Wednesday, 5:00 p.m. Deadline for adding regular courses. 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 7, Wednesday, 5:00 p.m. Deadline to file for S/U grade for first half short courses.
- September 23, Friday, 5:00 p.m. Deadline for withdrawing from first half short courses with grade of W.
- September 23, Friday, 5:00 p.m. Deadline to file for S/U grade for regular courses.
- October 8, Saturday. Homecoming day.
- October 14, Friday. Free day. No classes.
- October 10-October 14. Adjustment period for adding second half short courses and for arranging course intensification.
- October 17, Monday. Last day to file application of candidacy for the associate’s and bachelor’s degrees to be conferred in May or August, 1995.
- October 20, Thursday, 5:00 p.m. Deadline for adding second half short courses.
- October 25, Tuesday, 5:00 p.m. Deadline for withdrawing from regular courses with grade of W.
- October 31, Monday, 5:00 p.m. Deadline to file for S/U grade for second half short courses.
- November 16, Wednesday, 5:00 p.m. Deadline for withdrawing from second half short courses with grade of W.
- November 18, Friday, 6:30 p.m. Thanksgiving recess begins.
- November 28, Monday, 8:00 a.m. Thanksgiving recess ends.
- December 2, Friday. Last day for tests in courses of 3 credits or more. Last day to petition for change in date of final examinations.
- December 9, Friday, 5:00 p.m. Deadline to officially withdraw from the University for Fall Semester. Last day to file petitions to change registration.
- December 9, Friday, 10:00 p.m. Instruction ends.
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 and the nation, 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 more than half a century 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 3500, 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 136 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 affiliated largely with The Lutheran Church-Missouri Synod, 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 only about 30 per cent of its students from Indiana; another 50 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. Approximately fifty National Merit Scholars enroll 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 230 full-time and 80 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 monthly 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 Senate, composed of faculty, students and administrators, 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

Associate in Science
Bachelor of Arts
Bachelor of Science in Accounting
Bachelor of Science in Business Administration
Bachelor of Science in Civil Engineering
Bachelor of Science in Computer Engineering
Bachelor of Science in Electrical Engineering
Bachelor of Science in Mechanical Engineering
Bachelor of Science in Nursing
Master of Arts
Master of Arts in Liberal Studies
Master of Business Administration
Master of Business Administration in Accounting
Master of Business Administration in Business Administration
Master of Science in Business Administration
Master of Science in Computer Engineering
Master of Science in Electrical Engineering
Master of Science in Mechanical Engineering
Master of Science in Nursing
Master of Science in Special Education
Juris Doctor
Academic Programs

Requirements and Flexibility
Each degree entails a set of requirements which are specified at appropriate places in this 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 bulletin.

1. Freshman Studies
(taken during the freshman year)
Freshman Seminar
Introduction to Christian Theology
Exposition and Argument
The Western World in Global Perspective

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 Natural Science and Mathematics, three courses
Non-Western or Third World Studies, one course
Foreign Languages, variable requirement
Physical Education, one credit hour

3. Integrative Study
A junior-senior level multidisciplinary course addressing a contemporary problem or issue and responsible citizenship by using advanced knowledge of a discipline, complex critical and expressive skills, and ethical judgment. (Not open to freshmen and sophomores.)

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 Studies
Art
Biology
Chemistry
Chinese
Classics
Communication
Computer Science
Criminal Justice
East Asian Studies
Economics
Elementary Education
English
Film Studies
French
Geography
Geology
German
Greek
Hebrew
History
International Economics and Cultural Affairs
International Service
Japanese
Latin
Mathematics
Meteorology
Modern European Studies
Music
Music Enterprises
Philosophy
Physical Education
Physics
Political Science
Psychology
Secondary Education
Social Work
Sociology
Spanish
Theatre and Television Arts
Theology
Urban Semester
Writing

Christ College:
Special Honors Program
The Humanities

The College of Business Administration:
Accounting
Business Administration
Financial Management
General Management
Human Resource Management
Marketing Management
International Business and Global Studies
Minor

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

Intercollegiate Programs:
Applied Statistics Minor
Ethnic Studies Minor
Gender Studies Minor
Human Aging Minor
Liberal Arts Business Minor
Manufacturing Management Minor

The College of Nursing:
B.S.N. completion program for R.N.

Students indicate preferences among the various topics, different each semester. Usually they are assigned to one of their first three preferences. Topics of past semesters have included:
Men and Women, Then and Now
Stewardship of the Good Earth
Children of Color
Going to Work, Going to School
The Wall: Vietnam Veterans Memorial
Baseball and the American Culture
Science Fiction and Society

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.

A core of four courses, two each semester, involves all freshmen in common studies. A description of Freshman Seminar 100 is found below. Theology 100, Introduction to Christian Theology, helps students to investigate Christianity, the religion which not only has shaped our society, but which also remains vital today in giving meaning to human life. History 100, The Western World in Global Perspective, is a course which leads students to understand how their own civilization has developed within the context of other world cultures. English 100, Exposition and Argument, is a course which, like the others, requires students to increase their command of written and spoken English and their ability to analyze facts and ideas. Full descriptions of these courses can be found under their respective departments and programs within the chapters on the College of Arts and Sciences.

The Freshman Seminar. In this seminar, the student joins other freshmen to study in depth a single topic proposed by the instructor. Because of its clear focus, the course not only improves but investigates the skills central to a liberal education: critical reading and thinking, effective discussion, disciplined speech and writing. Students have valued the seminar experience, especially because it introduces them effectively, yet personally, to what college-level work means and because it develops their self-confidence at the beginning of their academic careers.

Students indicate preferences among the various topics, different each semester. Usually they are assigned to one of their first three preferences. Topics of past seminars have included:

Men and Women, Then and Now
Stewardship of the Good Earth
Children of Color
Going to Work, Going to School
The Wall: Vietnam Veterans Memorial
Baseball and the American Culture
Science Fiction and Society

Intercultural Studies

Intercultural studies at Valparaiso University brings together students of multicultural backgrounds and of different nations to explore together how to build a multicultural and intercultural society—often using the campus itself as a laboratory for learning. It is a program of academic courses, workshops, off-campus encounters and public service. Intercultural studies is not an academic major or minor. It is a program of learning to build an intercultural campus and to develop leadership for service by encountering the challenges of cultural diversity. The program is inspired by the annual all-campus commemoration of the birthday of Martin Luther King, Jr.

An important feature of the program is a balanced involvement of students from different racial, ethnic and national
Academic Programs

backgrounds. Some activities in the program limit enrollment. Students are asked to register their interest at the Intercultural Studies Office in Huenig Hall, but there are no formal entrance requirements. A campus-wide orientation to the program is held annually early in the fall semester.

Activities include race awareness workshops, an Intercultural Leadership Development Seminar, research and service opportunities, and links with developing academic programs in American ethnic studies and in international service. Many students also participate in such student organizations as the Black Student Organization (BSO), Black American Law Student Association (BLSA), Native American Student Association (NASA), Latino Student Organization (VIVA), and Association for Students Interested in Asia (ASIA).

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, Economic Policy and Justice.

The Valparaiso University course Political Science 110 is a prerequisite to this program. This program is not 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 Chair of the Political Science Department.

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 Political Science 110 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 Semester on the United Nations and pay to Valparaiso University the normal general fee of this University and the usual tuition and fees of Drew 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 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 49.

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.

The number of credits that may be counted toward graduation from Valparaiso University for the Chicago Urban Semester are given on pages 149-153. Academic Programs

Academic credit for Cooperative Education is granted by the college or the participating department in which the student is enrolled. The number of credits that may be counted toward a major or a degree varies with each program. Students should consult their faculty adviser as to how their co-op credits will be used in their degree plans.

Students in the coop program are considered to be continuing full-time students of the University while in industrial assignments.

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.

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 chairmen. 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 47-48.

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 149-153.
Academic Programs

**Summer Sessions.** The summer program serves a variety of undergraduate and graduate students. 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 may take short courses for transfer to their home institution. Newly admitted students, transfers and graduates may begin their work during the summer. Selected high school students may take courses to facilitate their educational objectives. The first six-week term 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 193.

**Lectures.**

Valparaiso University presents numerous lectures by scholars and public figures on topics of scholarly 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.

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

**A. G. Huegli Lectureship in Church-Related Higher Education,** is a lectureship series established by Dr. A. G. Huegli to stimulate discussion on key issues concerning Church-Related Higher Education. Rae M. Huegli 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 C. Huegli because of her long interest in health services.

**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 lecture periodically is replaced with a memorial sermon on a topic related to Christian faith and social issues.

**A. J. W. and Elfriede 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 annual series is funded by a generous gift from the Monsanto Fund to enable the selected faculty member to impart new knowledge to students.

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

**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.

**Thomas F. Staley Distinguished Christian Scholar Lectures** were established by Thomas F. Staley to further the evangelical witness of the Christian Church, with a particular concern for college students.

**University Lectures** on various topics of current interest are presented from time to time at University convocations as an integral part of the University's educational program.

**Endowed Chairs and Professorships.**

**The Walter E. Bauer Professorship of Art History** was established through a grant from the National Endowment for the Humanities and friends of Valparaiso University to honor the late Dr. Walter E. Bauer in recognition of his leadership in advancing the study of Art and its history at Valparaiso University.

**The Paul H. Brandt Professorship of Business** was established by Paul H. Brandt to promote excellent teaching and leadership in the College of Business Administration.

**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 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 Dr. Walter G. Friedrich, Valparaiso University professor emeritus of English, and to support and encourage high quality teaching in American literature.

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

**The Emil and Elfriede Jochum Chair in Law,** a University Professorship established through a gift from Mr. Emil Jochum, 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.

**The Frederick A. and Mazie N. Reddel Professorship of Music,** established by the Reddel family to honor Fredrick A. and Mazie N. Reddel, is a professorship in the Department of Music.

**Leitha and Willard Richardson Professorship of Engineering** was established by Leitha and Willard Richardson to promote excellence in the College of Engineering.

**The Herbert H. and Agnes S. Schulz Professorship of Business** was established by members of the Schulz family in honor of their parents to support the high goals of the College of Business Administration.

**The Louis and Anna Seegers Chair in Law** was established by Edward A. Seegers in honor of his parents to promote teaching and scholarship in the School of Law.

**Special Academic Endowments.**

**The Carl and Isabelle Brauer Business Ethics Fund.** This endowment has been established to support activities in the area of business ethics.

**The Carl and Isabelle Brauer Humanities Fund.** The fund promotes professional activities in the humanities.

**The Carl and Isabelle Brauer Music Endowment.** This endowment is intended to support the music program of the University.

**The Endowed Fund for Faculty Research and Faculty Development-1975 Senior Class Gift.** This endowment supports both research expenses and faculty development projects.

**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 Academic Books in the Humanities.** 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.
Academic Programs

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. Swygert 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 either by Valparaiso University or by other institutions.

The University sponsors twelve programs abroad, two of which (Cambridge and Reutlingen) are exclusively Valparaiso University programs; the other ten (Tübingen, Puebla, two programs in Paris, Hangzhou, two programs in Japan, Oak Hill in London, Athens, and Namibia) are offered in conjunction with host-institution programs. Students may study in other countries as well, through programs sponsored by different institutions. Specific suggestions and information are available through the Department of Foreign Languages and Literatures and the International Studies Office. Students considering study abroad should consult the Director of International Studies as well as their academic advisor early in their academic program, to ensure the coherence and continuity of that program.

Any financial aid that students receive while attending Valparaiso University, with the exception of campus employment, may be applied to the twelve Valparaiso University-sponsored programs. 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 are encouraged to 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. Although applications may be submitted through the sixth week of the semester immediately preceding the semester abroad, the number of spots available is smaller than when application is made two semesters in advance.

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 program; the latter requires junior standing for participation. Beyond this, the programs have varying requirements for admissions. Some programs
International Study 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. 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, Non-Western/Third World, Social Analysis. For the programs in Cambridge, Reutlingen, Puebla, Hangzhou, and Namibia, students pay the regular tuition, the double-room fee, and a study-center fee, if applicable (see page 209). 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 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. Each year the International Affairs Committee will consider a limited number of proposals to have non-Valparaiso University programs count as University programs. The application deadline for these proposals is January 15 of the academic year preceding the study-abroad year.

Athens, Greece

Valparaiso University has an exciting new 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 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 twenty 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 classes at nearby Anglia Polytechnic University by special arrangement. Two long breaks provide approximately four 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.

UC 400 Art Appreciation 3 Cr.
GEO 318 European Geography 3 Cr.
HIST 351 English History and Culture 3 Cr.
GS 330 Cambridge Tutorial: English Life and Culture 3 Cr.
GS 395 (Title and content of this course change, depending on the interest and discipline of the resident director) 3 Cr.

Courses may apply toward fulfillment of the following General Education Requirements: Fine Arts/Fine Arts-Literature (UC 400 and GS 330), Social Analysis (GEO 318).

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

London, England—The Oak Hill Semester

As a member of the Concordia Consortium for Study Abroad (CCSA), Valparaiso University is able to send a limited number of deacnesses, theology, and pre-seminary students to Oak Hill College, an Anglican seminary in Southgate, London. A visiting professor from one of the CCSA colleges or universities directs the Oak Hill Program and teaches two courses, one on British cultural heritage and one in his or her field of expertise. Students also take two Oak Hill courses, for a total of 15 semester credits. A variety of field trips round out the program.

Program Requirements. Deacness, theology, and pre-seminary students only. Sophomore standing with a grade point average of at least 3.00.

Program Curriculum. The program includes the following courses:

British Cultural Heritage 4 Cr.
Course offered by Visiting Professor (varies) 3 Cr.
Theology courses offered by Oak Hill College 4 Cr.

Courses may apply towards theology requirements with approval from the Chair of the Department of Theology at Valparaiso University and towards General Education Requirements upon evaluation. This program is available in the fall semester only.

Hangzhou, China

Hangzhou, China is well renowned for its cultural history, its tea and silk production, and according to Chinese tradition, for being a paradise on earth. Hangzhou 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 (15-18 hours a week) while having the opportunity to experience facets of Chinese culture through tours, lectures in English, and demonstration classes of such arts as calligraphy and taiji chuan. The Chinese Culture and Civilization course (EAST 395) 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 East Asian Studies and other departments. Students may also pursue an independent research topic (see below under EAST 495). 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 Hangzhou University. The following courses are offered:

EAST 109 Intensive Elementary Chinese 5 Cr.
EAST 110 Intensive Elementary Chinese Conversation 6 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.

EAST 109 and 110 are for students with no prior knowledge of Chinese and must be taken concurrently. 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 East Asian Studies. EAST 109, EAST 110, EAST 209, and EAST 210 may also count toward the General Education Foreign Language Requirement. EAST 395 will satisfy either 1 the Fine Arts/Fine Arts-Literature and the Non-Western/Third World, or 2) the University Course and Non-Western/Third World General Education Requirements. Students using this course to complete a major in Asian studies may not use it to satisfy the University Course Requirement. 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 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 two to three 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 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 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 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 East Asian 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 bulletins to match their course selections with requirements.

Namibia

As a result of a partnership with the Center for Global Education at Augustsburg 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. Students must live with host families or in dormitories directly at the University. Students have the option of 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. Sophomores, juniors, and seniors in good academic standing are eligible to apply. Enrollment is limited to fifteen students each semester, drawn from colleges and universities throughout the United States.

Program Curriculum. The theme for the spring semester is Women in Development: A South Africa Perspective, and the tentative offerings include courses in four of the following disciplines: political science, history, education, economics, interdisciplinary studies, and sociology. The theme for fall semester is Southern Africa Societies in Transition: The View from Namibia, with a range of courses similar to the spring offerings. Much of the coursework involves encounters with the people and culture outside the walls of the study center, thus making the semester an outstanding learning experience.

Students are able to go 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 designed especially to strengthen students' facility in the French language and their knowledge of French manners and culture. Students enroll at the Sorbonne, where the medium of instruction in all classes is French. The full-year program is preceded by one month of intensive French language instruction at the Alliance Française. Full-year Advanced Program students may also enroll in the Business Program, which allows students to prepare for the certificate or diploma given by the Chamber of Commerce and Industry of 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. Upon arrival in Paris, students take a language test to determine their placement in either the Regular Program or the Advanced Program. In the Regular Program, students take 13-15 credit hours of instruction in French language, literature and civilization.

In the Advanced Program, students take Advanced Composition and Conversation I for 8 credits (fall or spring semester) and Advanced Composition and Conversation II for 8 credits (spring semester; prerequisite is Advanced Composition and Conversation I).

Additional course offerings vary from year to year, but are generally available in the following fields: Art Appreciation, French Literature, History, Geography, Music, Philosophy and Political Science. Courses are 2 credits each.

In the Regular Program, courses may apply toward the French or the International Economics and Cultural Affairs major. In the Advanced Program, certain courses may apply toward the French or International Economics and Cultural Affairs majors, or toward certain 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 enrolling 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 eight weeks of intensive language course work to prepare them for the internship. Upon successful completion of the language component, students intern in French businesses in Paris for eight weeks. They are assisted in finding internships in four general areas: arts/architecture; journalism/communications; business/economics; and French politics. Past internships have included Galerie Maeght, Antenne 2 Télévision, l'Office de Tourisme de Paris, and le Ministere des Affaires Etrangeres.

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 la Americas-Puebla. These courses are designed for foreign students and are taught by Mexican professors in English or 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.
International Study Programs

Program Curriculum. Students are placed into language courses by examination. 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 include the areas of Economics and Political Science.

Sociology 330 may fulfill the Integrative Studies requirement or 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 Non-Western/Third World.

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 (intermediate or advanced) and ECON 390, 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. German 102 or the equivalent and sophomore standing are required.

Tübingen, Germany

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

Program Requirements. German 204 or the equivalent; junior standing, and approval of the head 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 courses from among the varying offerings of the University of Tübingen.

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.
Facilities for Learning

Buildings

Much of the University campus has been built within the past few decades. The academic buildings offer students modern, well-equipped laboratories and studios as well as classrooms and seminar facilities.

University Library Facilities

A full range of library resources and services are offered to the university community at two sites, the Henry F. Moellering Memorial Library and the Law Library.

Moellering Library, the main library for the university, faces the Chapel of the Resurrection and, therefore, shares the center of the campus. Currently, the collection contains 260,000 bound volumes, 155,000 microforms, 1,560 current periodicals, 6,000 sound recordings, 500 CD-ROMS, 440,000 government publications, and 75,000 maps. With the exception of maps, reserve materials, sound recordings, rare books, and the University Archives, all materials are available to users on open shelves. In 1994, the library will provide electronic access to selected holdings in full image electronic format on a trial basis.

Access to collections of books, journals, and government publications housed at each library is available through Galileo, the online public catalog. Users are able to locate holdings by title, author, subject, keyword, or call numbers in either library or from their home computers. Both libraries utilize online circulation and reserve systems. Access to journal articles is provided through MINe, the Moellering Information Network, a local area network of CD-ROM indexes to periodical literature in education, business, nursing, sciences, and other subjects. MINe also provides integrated access to the holdings of other libraries via Internet as well as another path to Galileo. Print indexes and online search services supplement CD-ROM access to journal articles.

The library faculty emphasizes person-to-person contact, providing tours and bibliographic instruction sessions to introduce users to library resources in general or to the specialized research tools of individual disciplines. The professional staff includes a part-time music librarian and archivist in addition to the library faculty, comprised of six librarians and the University Librarian. The librarians provide traditional reference assistance with periodicals, reference materials, and government publications and maps received via the U.S. Depository Program in addition to guidance with electronic resources noted above.

Interlibrary loan services provide hands-on use of materials held at other libraries. To facilitate timely access, the library participates in cooperative agreements with the Northwest Indiana Area Library Services Authority, the Indiana Cooperative Library Services Authority, and for materials held outside the state, the Online Computer Library Center. The library also maintains membership in the Center for Research Libraries, a cooperative program providing cost-effective access to three million volumes of research-level materials. Commercial document delivery services are being explored.

Special days in the library are highlighted with exhibits: library materials are on display at such times, and often a bibliography accompanies the exhibit. Art work from the Sloan Collection of American Paintings are displayed throughout Moellering Library, adding to the appeal of an exposed brick structure. Currently the Offices of the University Museum of Art are also housed in the library, as is the Sloan Gallery, at present the museum's primary gallery.

The library of the School of Law, with over 226,000 holdings and LEXIS and WESTLAW computer bibliographic systems, is located in Weisemann Hall.

Electronic Information Services

The mission of Valparaiso University Electronic Information Services is to provide the electronic information environment needed to support the overall mission, commitments and priorities of the University. The EIS staff is responsible for planning and managing the computing and electronic information environment so that it facilitates the technological needs of students, faculty, staff and administration. The electronic information environment provides support for excellent teaching and learning, quality research, effective decision-making, efficient administration, and communication among the members of the University community.

The Electronic Information Services which directly impact students include hardware and software to support courses and applications across the curriculum; access to national and international networks via INTERNET and video conferencing; access to PhoneMail and e-mail; training on available resources; a computer hardware and software resale program; consulting services; and an on-campus maintenance and repair center for IBM, Macintosh, and Zenith computers.

Networks of DOS and Macintosh computers and Unix workstations are available in 10 student laboratories located in Schnabel Hall, the Guild Microcomputer Center, Gellersen Center, Moellering Library, Urschel Hall and the Law School. General applications supported include word processing, spreadsheets, databases, desktop publishing, statistics, and graphics. Many departments have specific applications available on the networks. In addition, many departments have computers located within departments to support special needs.

The student laboratories have a variety of peripherals, including plotters, CD-ROM drives, laser disk players, electronic keyboards, laser printers, a color printer, and scanners.

The main academic time-sharing mini-computer is a VAX 4000 which supports many academic applications. The VAX is the main e-mail and bulletin board server for faculty and students. Access to INTERNET is available to campus users.

There are three satellite dishes on campus: one for video conferencing; one dedicated to receiving weather data to support the meteorology program; and one for Gellersen Center.

Each residence hall has a computer cluster to meet the basic computer needs of students.
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 3.60 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 3.40 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 3.20 in their work at this institution are graduated **Cum Laude**.

2. The student was registered for at least fourteen credit hours of work for that semester on campus in the College of Arts and Sciences, Business Administration or Nursing, at least fifteen credit hours in the College of Engineering, or at least twelve credit hours in an International Studies Semester, Special Off-Campus Semester or any other approved cooperating program.

Graduating senior honors are announced at Commencement and are based on the work of the last two semesters. The standing of 3.50 must have been maintained cumulatively for both semesters; restriction 1 above applies, and the total credit hours for both semesters must be at least the cumulative total from restriction 2 above (for example, in the College of Arts and Sciences, a total of twenty-eight credit hours for two semesters on campus or a total of twenty-six hours for one semester on campus and one semester special off-campus program, e.g. the Washington Semester).

Semester Honors

Undergraduate students who achieve a standing of 3.50 in any semester except the last before graduation 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 was registered for at least fourteen credit hours of work for that semester on campus in the College of Arts and Sciences, Business Administration or Nursing, at least fifteen credit hours in the College of Engineering, or at least twelve credit hours in an International Studies Semester, Special Off-Campus Semester or any other approved cooperating program.

3. The student maintained a standing of at least 3.40 in each of their two most recent semesters at the University and at least the cumulative total from the requirements of the honors college.

**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 47.

**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 pre-medical or pre-dental program.

**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 senior class and the upper seven percent of the junior class of the College of Business Administration are eligible for membership.

**Sigma Theta Tau.** This national 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
English - Sigma Tau Delta
Finance - Financial Management Association Honorary Society
French - Pi Delta Phi
Geography - Gamma Theta Upsilon
German - Delta Alpha Phi
History - Phi Alpha Theta
Home Economics - Kappa Omicron Nu
Journalism - Society of Collegiate Journalists
Marketing - Alpha Mu Alpha
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.

**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 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.
Honors and Awards

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.

Walther M. Miller Memorial Prize. This prize is awarded to a student who has majored in German and demonstrated excellence in German studies at Valparaiso University. It is awarded in memory of Walther M. Miller, Distinguished Service Professor Emeritus of German Language and Literature.

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.

Outstanding College of Business Administration Senior Award. Selected by the faculty of the college and awarded to the student who displays evidence of high scholarship, service to the university community, leadership qualities, professional attitude and regard for business ethics.

Wall Street Journal Honor Roll. This award is made in memory of the late Howard K. Hughes, a long-time supporter of Valparaiso University. It is granted to a student in accounting, human resource management and management.

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

Outstanding Senior Student Awards. Awarded to the outstanding senior student in accounting, finance, marketing, human resource management, and general management.

Crown International Inc. Decision Sciences Award. Awarded to a member of the Decision Sciences honorary who has the highest Decision Sciences grade point average.

Kingswood Hospital Award for Psychiatric Nursing. The Kingswood Hospital awards this prize to a senior nursing student selected by the nursing faculty for scholarship and dedication to working with the mentally ill.

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.

STUDENT LIFE

The University accepts and practices the view that a liberal education concerns the whole person. Its residential and co-curricular life encourages students to develop their full potentials, complementing and enriching their academic curricula.

The Office of the Vice President for Student Affairs coordinates the services offered to students and promotes a wide range of campus activities which enhance residential living at Valparaiso.

Student Residences

Although a number of students live in private or university-owned apartments near the university and a number commute from the immediate region, the large majority of students live in one of the eight university residence halls or in one of the ten fraternity houses located on or near the campus. Lankenau, Alumni and Brandt Halls are residence halls with rooms for two students. The last two are co-ed halls, men and women living on alternate floors. Guild and Memorial are slightly older but very comfortable buildings with two-student rooms on the first two floors and three- or four-student rooms on the third floors. Memorial Hall is a co-ed hall with men and women living on alternate floors. Scheele Hall is divided into individualized areas to provide accommodations for sororities. The Foreign Language House, located five minutes from campus, houses a small number of foreign language students under the direction of a native speaker. All of these residence halls and the Foreign Language House are self-governed.

Three dining halls and the Valparaiso Union provide food services.

Student Conduct and the Honor System

Valparaiso University holds to the ideal of a community of Christian scholars living together in freedom and civility, in an environment conducive to Christian faith and supportive of the Christian ethic. A minimum number of rules and regulations is necessary for this community; these are found principally in the Student Handbook.

Each student enrolling at Valparaiso University thereby accepts the rules, regulations and procedures as found in this catalog and the Student Handbook.
Conformity 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 only by the Vice President for Student Affairs on the recommendation of the Campus Judiciary 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 honorable 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 "I have neither given or received nor have I tolerated others' use of unauthorized aid" must be written out and signed on all required 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, either to give nor to receive unauthorized aid. All students must report to the Honor Council any violation of the System which they become aware. Students are asked to sign a pledge on all work submitted for academic credit to the effect that no unauthorized aid was given or received.

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 alleged Honor Code violations and then makes decisions regarding guilt or innocence and any penalty. The Council is composed of students and faculty who are chosen by the incumbent 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, theatre, dance, and creative writing; and academic majors in the departments of visual and performing arts which permit students to make the arts the 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 Music Department includes several choral and instrumental ensembles in its curriculum. These are open to all students; admission to most groups is by audition, but not all require this. The major choral ensembles are the Concert Choir, the Kantorei, the Chapel Choir, and the Choral Society. Instrumental ensembles are the Symphonic Band, the University Symphony Orchestra, and the Jazz Band. Smaller ensembles as well as extracurricular musical activities also exist for student participation. Private studio instruction is offered in voice and a wide variety of instruments.

Theatre

The University Theatre brings the best of classic drama and new plays to the Kroencke Hall stage. Offerings also include musicals, chamber dramas, and studio productions. Interaction with television arts provides creative opportunities for any student interested in dramatic arts. Theatre work is focused in performance, production, and administration. Advanced students regularly supervise in all areas.

Art

The Art Department offers basic studio courses in painting, drawing, design, graphic design, sculpture, photography, ceramics, fibers, 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 University Museum, a collection of nearly 1,300 works of increasing national reputation. Summer programs of study overseas provide students with immediate experience of Western cultural heritages.

Dance

While not yet a formal part of the University's curriculum, dance groups organized and maintained by students attract many participants. Co-curricular workshops as well as performances by existing dance ensembles are important parts of campus activities.

Creative Writing

Courses in creative writing are offered to students by the English Department, and informal writing groups meet often to discuss works in progress. WORDFEST annually brings professional writers to campus and awards prizes for fiction, poetry, and nonfiction prose. The Lighter, a campus literary magazine, presents student work in award-winning form.

Athletics

Valparaiso University provides a varied athletic 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, eight 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.

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

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

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

WWUR, The campus radio station WWUR (95.1 FM) offers students a wide variety of experiences in radio broadcasting and management.

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. It is composed of upper class student representatives and officers elected in the spring and freshman representatives.
Student Life

alpha Phi Omega. Alpha Phi Omega is the nation's largest service fraternity founded to develop leadership, promote friendship and give service to the campus, community and nation. Alpha Phi Omega is a co-ed organization whose goals are the development of the individual through both service and social events. Active membership in this service fraternity is open to all students of the University, and in no way interferes with membership in a social fraternity or sorority.

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.

Black Student Organization. The Black Student Organization (BSO) is devoted to maintaining a cohesive African-American community on campus, to promoting knowledge of black culture and to providing a forum for the expression of the ideas and goals of African-American students. The BSO sponsors a cultural, social, recreational, and educational events and programs to broaden student acquaintances and improve student life, and establishes policies for the use of the Valparaiso Union.

Fraternities and Sororities

Active chapters of national Greek social fraternities on campus include Delta Sigma Phi, Lambda Chi Alpha, Phi Delta Theta, Phi Kappa Psi, Phi Sigma Kappa, Pi Kappa Alpha, Sigma Chi, Sigma Phi Epsilon, Sigma Pi, Sigma Tau Gamma and Theta Chi. Greek social sororities include Alpha Phi Delta, Alpha Xi Epsilon, Chi Sigma Xi, Delta Chi Epsilon, Delta Phi Kappa, Gamma Phi, Kappa Psi Omega, and Phi Beta Chi.

The Dean of Women is the official adviser to the sororities, the Inter Sorority Council, and the Sorority President’s Council. The Dean of Men is the official adviser to the fraternities, the Inter Fraternity Council, and the Greek Social Responsibility Committee.

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 sorority complex.

The Valparaiso Union

The Valparaiso Union is a community center for all the members of the campus, and 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 Union provides students a place to meet and relax; a headquarters on campus for off-campus students; a place where faculty and students can develop acquaintances outside the classroom; a place to entertain and be entertained at dinners and receptions; a central place to go when visitors, parents, and alumni visit the campus; and an information center, lounge, and places to meet and visit with friends.

As one of Valparaiso University’s largest student organizations, the Union Board provides films, lectures, a non-alcoholic night club, student union trips, mini-courses, coffeehouses, a comedy club, trips to Chicago, and much, much more. The Union staff also plan and present such programs as the jazz festival, the madrigal dinners, College Bowl, Playfair, lounge sales, and other performing arts events. Many events planned by student organizations or faculty departments also take place in the Union.

Students from Union Board, Student Senate, and other student organizations have offices in the Union where they plan programs and perform their duties.

The Valparaiso Union also provides students the opportunity to learn and develop their leadership potential through programs such as the Campus Leaders Workshop. These experiences allow students to explore the dynamics of effective leadership, making the Union an important place where education takes place, as students and others come together on common ground to meet and exchange ideas.

The Union Volunteer Service Center provides a clearinghouse for students to volunteer their time in service to the community. Local agencies in need of volunteers provide structured opportunities. Students learn the rewards of volunteering, build self-esteem and social responsibility, and provide help to those in need. Students placed by the Volunteer Service Center serve in a variety of positions, including tutoring adults, teenagers and children, visiting with the elderly, working with handicapped and mentally challenged persons, and helping with Christmas in April.

The Union Recreation Office handles reservations for meetings and events that take place in the Valparaiso Union and in academic buildings. It also serves as a central source of information for other University activities. This office also develops and distributes the weekly What's on at VU, a listing of events and activities that appears weekly in The Torch and is also posted on campus.

The Union Recreation Office offers billiards, bowling, video games, table soccer and table tennis. Outdoor recreation equipment is available for students to pursue a variety of outdoor recreational activities. Equipment such as tents, backpacks, cross country skis and sleeping bags are available for rental. Swimming mountain bikes can be checked out for free. Union Board regularly offers trips such as skiing, canoeing, camping, whitewater rafting, and backpacking.

As a conference and meeting center, the Valparaiso Union handles requests for meeting space in all academic buildings on campus.

The Office of Conference Services in the Union schedules and implements numerous conferences, camps and workshops in the summer and throughout the school year.

Union Adworks assists any campus group to publicize their programs. Posters, flyers, buttons, brochures, announcements and mail box stuffers can be printed to aid in advertising campus events.

The Union Information Desk provides answers to questions, and sells popcorn, candy, gum, sundries, newspapers, tickets for trips and special programs, and discount movie tickets. Also offered are free magazines for reading, a fax machine service, change, lost and found, a dictionary, and phone directories.

Other Union services include a ride board, a cash machine, commuter student mailboxes, lockers, bulletin boards, art exhibits, telephones, audio and video services, and program planning assistance. Union Board offers a telephone activities hot line - #5555 - a prerecorded message listing the latest in campus activities.
Student Life

The University Book Center, operated by the Nebraska Book Company, sells textbooks, general books, gift items, VU sportswear, and provides postal and check cashing services. Dining Services operates Jesters, which provides daily breakfast, lunch and dinner items. Their catering department also provides services such as 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 10:10 for Morning Prayer 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 Choir of the Chapel of the Resurrection, the Kantorei, 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 visitation, as well as Chapel Service groups such as Altar Guild, 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 1801 LaPorte Avenue. The center is staffed by a full-time chaplain and a lay minister. 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 other Christian churches in Valparaiso who wish to conduct a ministry for students of their denomination. A listing of area churches and the time of worship is available in the chapel office.

Services For Students

The Office of Multicultural Programs

The Office of Multicultural Programs, located in Kretzmann Hall, provides services and programs designed to assist the University in addressing the specific academic, cultural, and social interests and needs of students of color.

The Office structures events throughout the year that serve to promote cross-cultural understanding and education, as well as preserve ethnic integrity. An integral part of the program is the Martin Luther King Cultural Center. It offers the resources of a community liaison, a library, a computer room, a kitchen, and a lounge.

The Director of Multicultural Programs serves as a liaison and supports and provides services to many campus and community organizations and programs. The Director works closely with the Asian American Association (AAA), Black Law Student Association (BLSA), Black Student Organization (BSO), M & M Mentor Program, and West Side High School Partnership Program. The Director also supervises the summer PRISMS Program and serves on a number of committees in an effort to support underrepresented groups and influence necessary change.

The Career Center

Operating within Valparaiso University’s Division of Student Affairs, the Career Center is a comprehensive facility for students and employers. Located in Alumni Hall, the Career Center houses a career library, a student interview lounge, private interview rooms, and staff offices.

Services offered include cooperative education information, orientation, and assistance; career counseling (by appointment); employment assistance (part-time, summer, full-time); as well as resources identifying internship opportunities. The Career Library includes promotional/educational videotapes, printed literature and information binders, job bulletins, a computerized self-assessment program and numerous career and job search resources. Career development directors and professional staff assist individual students and professional school students in the Career Library. Students can use these materials without an appointment.

Career planning assistance is provided to students through seminars and workshops. There is also opportunity to participate in special event activities including job fairs, video interviews, and programs such as "Job Search in a Tight Market," which features Valparaiso University alumni. The Alumni Career Services Network facilitates student interaction with VU alumni to discuss career direction, summer job information, co-op/internship opportunities, employment opportunities, and other assistance. The Career Center hours are 8 to 12 and 1 to 5, Monday through Friday. Appointments with a professional staff member may be made in person or by phone.

The Professional Development and Placement Office for teachers, located in Miller Hall, gives assistance to beginning and experienced teacher candidates who have completed requirements for certification under the supervision of the Department of Education at Valparaiso University. The telephone number of The Professional Development and Placement Office is 219-464-5079.

Student Counseling and Development Center

The Student Counseling and Development Center provides individual and group counseling sessions for persons with emotional, interpersonal, career, or academic skills problems; psychological testing of personality, career interests, and personal development; outreach presentations on a wide variety of topics; a career resource library; crisis intervention; and consultation services. The center is staffed by doctoral and masters level psychologists and counselors, a consulting psychiatrist, and support personnel. The services provided emphasize both the prevention and remediation of problems of individuals and groups of the university and are confidential and free of charge. The counseling relationship is founded on respect for the individual and belief in 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.

Clinical Services. The Student Counseling and Development Center offers individual, conjoint, and group counseling for personal and interpersonal issues such as depression, anxiety, low self-esteem, non-assertiveness, and victimization. Help with academic skills deficits, including time and stress management, test anxiety reduction, and poor motivation are also addressed through periodic group sessions.

Outreach Services. The Student Counseling and Development Center’s outreach program presently consists of two components: the Academic Skills Program and the Speaker’s Bureau. Through the Academic Skills Program, the staff presents seminars targeted to each specific college at the beginning of each semester. These workshops provide students with specialized training in areas not usually addressed in courses, such as "Improving Your Study Skills," "Time Management," "Dealing With Test Anxiety," and "How To Get Motivated." Through the Speaker’s Bureau program the Student Counseling and Development Center encourages the university community to request seminars on topics of their own interest. As a result of these requests, the staff have presented seminars on a wide variety of topics, including depression, anxiety, suicide, rape, AIDS, and stress management. A special emphasis on relationships and values-based sexuality decision-making has recently been added.

Sexual Assault Advocacy and Facilitating Education Office

The Sexual Assault Advocacy and Facilitating Education (SAFE) Office at Valparaiso University is located at Loke Hall Room 106.

The mission of the SAFE Office is to be a support system for individuals and to inform and advise them through the process of healing. The SAFE 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 the survivors with information about their rights, options that exist in dealing with the assault, and support in their decision making. All of this occurs within the realm of confidentiality.

Office of Alcohol and Drug Education

The Office of Alcohol and Drug Education serves to coordinate substance abuse prevention efforts on campus through presentations and outreach programs to student residences, in conjunction with the curriculum and 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 certified alcoholism
Student Life
counselor provides screening and referral services to those experiencing problems with substance abuse. Students who have been affected by familial alcoholism are referred to the Student Counseling and Development Center.

Academic Advising
One of the benefits of an education at Valparaiso 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.

Entering 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, often 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 pre-med, require students to declare their intentions and begin the 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., departmental, special program, Christ College), the student should have the signature of the special program adviser, but 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 Writing Center
At the Guild Writing Center, students will find all the tools for writing close at hand. Students can discuss writing projects with faculty and student tutors, as well as use computers for word processing. The tutors help writers plan, revise, and proofread. Other resources like handbooks, dictionaries, and ample table space make this site an excellent place to write.

Tutoring
Mortar Board, an honor society, provides tutorial help to students in need of assistance.

The Valparaiso University Student Health Center
The Student Health Center provides an environment that enhances dignity and individual student responsibility for maintaining health. The Health Center is interested in promoting good health practices as well as preventing sickness and accident among students. The services include assessment by a nurse and/or physician and minor laboratory tests. Illnesses or accidents which require more extensive treatment or services are referred to the local hospital adjacent to the campus or 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 Insurance Policy.

A Basic Student Insurance Policy is provided without charge to all full-time undergraduate and law students of the University. The cost is covered by the general fees which a student pays at the beginning of each semester. So that a determination of benefits can be made, it is the student’s responsibility to bring all itemized bills to the Health Center and complete the insurance claim form for services covered by the basic Student Insurance Plan.

First-time full-time students are required to file a complete Health History on the University’s form. This report includes a medical history and verification of immunizations that are required by the University and the specific dates they were given. A student’s registration is not considered complete until the Health History/Required Immunization form has been received and approved by the Health Center. A $50.00 non-refundable charge will be included on the student’s billing if the Health History/Required Immunization form is not received and approved by July 1 for Fall admits and December 1 for Spring admits. If a student is admitted after the deadline date, the form must be submitted immediately, not to exceed 14 days after receipt of the form.

The Health Center is open for student use between the hours of 8:30 a.m. to 12:00 noon and 1:00 p.m. to 4:00 p.m., Monday through Friday, when the University is in session. At other times, in case of emergency, students may use the services of the Emergency Room at Porter Memorial Hospital adjacent to campus.

A fee-for-service gynecological and consultation service is available for all full-time undergraduate and law students through the Life Choices Center located in the Health Center. A nurse practitioner is available to see patients by appointment.

The Health Center will also administer allergy injections on a limited fee basis. The Health History/Required Immunization form must be on file. In addition, a letter will also be needed from the physician who ordered the medication, listing the following: allergy physician’s name, address, and phone number; student’s allergies; recommended injection schedule; vial contents; serum concentration; special instructions; and instructions for missed injections.

The Valparaiso University Federal Credit Union
This is a financial cooperative whose membership is open to all students, alumni, members of the faculty and employees of the University, as well as their respective families. Its purpose is to provide the University community with a full service, convenient financial facility. The Credit Union is governed by a board of directors elected by the membership and is supervised by the National Credit Union Administration, an agency of the United States Government. All accounts up to $100,000 are insured by the National Credit Union Administration. Student loans are available through the Credit Union.
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 IN SCIENCE DEGREE (60 CR.)

**A. General Education Requirements**

1. Theology 100 or 106 ......... 3 Cr.
2. English 100 or 101 ......... 3 Cr.
3. History 100 ............. 3 Cr.
4. Social Analysis .......... 3 Cr.
5. Physical Education 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. Theology 100 or 106.
2. The student must earn a cumulative grade point average of 2.000 on all work in residence and on courses in Natural Science and Mathematics taken in residence.
3. An Associate in Science degree with concurrent cytotechnology certification may also be obtained. See page 44.

#### BACHELOR OF ARTS DEGREE (124 CR.)

**A. General Education Requirements**

1. Freshman Studies ........ 12 Cr.
   - Freshman Seminar ........ 3 Cr.
   - Introduction to Christian Theology or Families of Abraham .... 3 Cr.
   - Exposition and Argument .... 3 Cr.
2. Academic Area Studies ..... 47 Cr.
   a. Theology ............. 6 Cr.
      One course from Level II; and one course from Level III taken in the junior or senior year. (These courses are in addition to the Level I course.)
   b. Literature and Fine Arts .... 7 Cr.
      English 200: Literary Studies; and one course in Fine Arts or Fine Arts-Literature. Courses which fulfill the latter requirement are Art 101, 102, 290: Arts, Forms and Feeling, 311, 317, 318, 319, 320, 321; English 231, 265: Comedy and Modern Literature, and Architecture and Fiction; English 480: Literature and Film, and Shakespeare on Film; German 250: Romanticism in

**B. Foreign Language** .... 8 Cr.

Course number 102 in a foreign language in which the student has no more than one year of high school credit, or course number 103 in any foreign language. A student who has completed a second year language course in high school will not be granted credit for course 101 in that language at Valparaiso University. International students whose native language is not English and who are studying on a non-immigrant visa are exempt from the foreign language requirement provided that they have fulfilled the General Education Requirements in English (English 100 or 101, and 200).

**C. Non-Western or Third World Studies** .... 0-3 Cr.

Courses which fulfill this requirement are Economics 336; Geography 102, 174, 210; North American Indian on Film, 311, 313, 314, 315; History 230, 231, 240, 241, 331, 341, 342, 393; Japanese 251; Philosophy 260; Political Science 130, 335; Sociology 150, 230; Spanish 250; Spanish American in Literature and the Arts; Theology 260, 337, 362, 363, 364, 365, 366. In appropriate cases, a course from this area may be used to fulfill another area requirement.

**D. Philosophical and Historical Studies** .... 3 Cr.

One course in either philosophy or history.

**E. Studies in Social Analysis** .... 6 Cr.

Two courses from the following selection: Economics 221, 222; Geography 101, 102, 201; Political Science 110, 120, 130, 220; Sociology 110, 150. The two courses must be from two different departments.
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 complementary to the major. An area minor in American studies, British studies, East Asian studies, or film studies may be presented in fulfillment of this requirement. 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.

2. 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 section of an academic major. In addition to the first major described above, a departmental minor may also be selected. An approved individualized minor may also be presented in fulfillment of requirements of a second major.

4. A complimentary major. A major which enhances and expands 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 a double major in the Department of Foreign Languages and Literatures, students pursing 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.

Interdisciplinary Programs
The College of Arts and Sciences offers four Interdisciplinary Programs of study which students may pursue instead of the major options outlined above. These 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, East Asian studies, International Economics and Cultural Affairs and Music Enterprises. A departmental second major or departmental minor may be added to the Interdisciplinary Programs with approval of the Dean’s office.

In addition, area minors in Interdisciplinary Programs in American Studies, Applied Statistics, East Asian Studies, Film Studies, and Gender Studies 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 programs: 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.
**College of Arts and Sciences**

**A. General Education Requirements**

For details see the Bachelor of Arts degree.

1. Freshman Studies ................. 12 Cr.
2. Academic Area Studies
   a. Theology .......................... 6 Cr.
   b. English 200 ...................... 4 Cr.
   c. Non-Western or Third World Studies ........ 4 Cr.
   d. Philosophy and Historical Studies ............... 3 Cr.
3. Academic Area Studies Option
   a. Fine Arts or Fine Arts-Literature ........ 3 Cr.
   b. Foreign Language, one course above 101 .......... 3 Cr.

**B. Profesional Education Requirements**

Introduction to Teaching 203 ........ 2 Cr.
Educational Psychology 204 ........ 3 Cr.
Special Education 340 ........ 3 Cr.
Reading in the Content Areas 460 ........ 3 Cr.
The Junior High/Middle School 475 ........ 3 Cr.
Principles and General Methods of Teaching 457 ........ 5 Cr.
Supervised Teaching 459 ........ 10 Cr.

**C. Music Requirements**

The requirements of the major field are given on page 116.

**BACHELOR OF MUSIC EDUCATION DEGREE (138-142 CR.)**

To be eligible for this degree, students must complete the curriculum described below. In addition, they must pass all performance tests set for them by the Department of Music.

Three specializations are offered: vocal, instrumental, and combination. The combination specialization is designed for students who wish to prepare themselves for teaching in both the vocal and instrumental fields. Any one of the specializations meets also state requirements for the teaching of general music. Students must earn a total of 138 credit hours in the vocal specialization, 140 credit hours in the instrumental specialization, and 142 credit hours in the combination specialization. They must have a grade point average of 2.50. In addition to meeting the music requirements for the Bachelor of Music Education degree, each student must be formally admitted into the Teacher Education Program and the Professional Semester. See requirements listed in the Department of Education under Secondary Education, page 71-72.

**A. General Education Requirements**

For details see the Bachelor of Arts degree.

1. Freshman Studies ................. 12 Cr.
2. Academic Area Studies
   a. Theology .......................... 6 Cr.
   b. English 200 ...................... 4 Cr.
   c. Non-Western or Third World Studies ........ 4 Cr.
   d. Philosophy and Historical Studies ............... 3 Cr.
3. Academic Area Studies Option
   a. Fine Arts or Fine Arts-Literature ........ 3 Cr.
   b. Foreign Language, one course above 101 .......... 3 Cr.
   c. One course in philosophy or history .............. 3 Cr.
4. Integrative Studies 400 ........ 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 183 for details), or
4. An Education Minor;
   OR two minimum science majors (biology, chemistry, computer science, geology, mathematics, meteorology, physics, psychology);
   OR complete at least 40 credit hours in the first major.

No more than 48 credit hours from a major may be applied toward the 124 credit hours required for graduation.

A geography minor 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 courses listed on page 40, and that other restrictions on majors are followed.

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

**A. General Education Requirements**

For details see Bachelor of Arts degree.

1. Freshman Studies ................. 12 Cr.
2. Academic Area Studies
   a. Theology .......................... 6 Cr.
   b. English 200 ...................... 4 Cr.
   c. Non-Western or Third World Studies ........ 4 Cr.
   d. Philosophy and Historical Studies ............... 3 Cr.
   e. Studies in Social Analysis, 6 Cr.
   f. Studies in Natural Science and Mathematics .......... 12 Cr.
   g. One course with laboratory from each of the following two areas:
      1) the life sciences (biology, psychology)
      2) the physical sciences (astronomy, chemistry, physics, physical geography).

   In addition, students pursuing the Bachelor of Science degree must take a calculus course or Mathematics 124 (or equivalent) or Computer Science 115 (or equivalent).

   a. Physical Education 101-105 1 Cr.
   b. 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 Cr.
      c. One course in philosophy or history .............. 3 Cr.
   d. Physical Education 101-105 1 Cr.

**B. Major Field Requirements**

Completion of a special curriculum with a major in elementary education leads to the degree of Bachelor of Science in Education. This degree is intended for students who plan to become teachers in elementary schools. The requirements for this degree are given in the announcement of the Department of Education on pages 70-71.

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

**A. General Education Requirements**

For details see Bachelor of Arts degree.

1. Freshman Studies ................. 12 Cr.
2. Academic Area Studies
   a. Theology .......................... 6 Cr.
   b. English 200 ...................... 4 Cr.
   c. Non-Western or Third World Studies ........ 4 Cr.
   d. Philosophy and Historical Studies ............... 3 Cr.
   e. Studies in Social Analysis, 6 Cr.
   f. Studies in Natural Science and Mathematics .......... 12 Cr.
   g. One course with laboratory from each of the following two areas:
      1) the life sciences (biology, psychology)
      2) the physical sciences (astronomy, chemistry, physics, physical geography).

   In addition, students pursuing the Bachelor of Science degree must take a calculus course or Mathematics 124 (or equivalent) or Computer Science 115 (or equivalent).

   a. Physical Education 101-105 1 Cr.
   b. 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 Cr.
      c. One course in philosophy or history .............. 3 Cr.
   d. Physical Education 101-105 1 Cr.

   Notes:
   - The requirements for the last 32 credit hours of this degree must be completed at the College of Education.
   - The major is approved by the College of Education and the Department of Teacher Education.
   - The student must pass a comprehensive examination administered by the College of Education.
   - The student must also meet the requirements of the College of Education for the Bachelor of Science degree.
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 above, pages 39-43. 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 pre-law program and the pre-medical arts programs are professional preparatory programs a student can 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 one 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 pages 38-39 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.

Note: Major and minor areas for teacher certification as in the list below are not the same as academic majors or minors.

Consult the Department of Education for those courses required for major and minor areas for teacher certification.

The University currently prepares applicants for certification in the following types of teaching:

Elementary

General Elementary (Grades 1-6)
Endorsements in:
- Reading
- Special Education (learning disabilities/neurologically impaired)
- Coaching
- Health Education
- Music
- Physical Education
- Recreation
- Visual Arts
- Junior High/Middle School endorsement (Grades 5-9)
- Social Studies
- Language Arts
- Mathematics
- Science
- Foreign Language
- Visual Arts

Senior-Junior High/Middle School (Grades 5-12)
- Coaching endorsement
- English major or minor
- Foreign Language major or minor
- French
- German
- Latin
- Spanish
- Health and Safety minor
- Mathematics major or minor
- Music minor
- Physical Education minor
- Reading minor
- Science
- Biology primary, supporting or minor
- Chemistry primary, supporting or minor
- Physics primary, supporting or minor
- Earth Space Science supporting area
- General Science supporting area
- Mathematics supporting area
- Physical Science supporting area

Social Studies
- Economics primary or supporting
- Geography primary or supporting
- Government primary or supporting
- Psychology primary or supporting
- Sociology primary or supporting
- U.S. History primary or supporting
- World Civilization primary or supporting
- Special Education (learning disabilities)
- Speech minor
- Visual Arts major or minor

All Grade Education (Grades 1-12)
- Coaching endorsement
- Music area major
- Music (choral, general or instrumental) major or minor
- Physical Education major or minor
- Visual Arts major or minor
- Special Education (learning disabilities)

School Services Personnel
- Nurse

PREPARATION FOR THE MEDICAL ARTS

Students can prepare for entrance into medical, dental, veterinary, medical technology or paramedical schools by entering one of the pre-medical 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 pre-medical arts academic adviser. Advising in the pre-medical arts is handled by pre-medical advisers, who are members of the Committee on Pre-Medical Arts. All recommendations to the professional schools are sent out by this Committee: Professors G. Cook (Chemistry), W. Leoschke (Chemistry), F. Meyer (Biology), Associate Professor G. Hicks (Biology), and Assistant Professor D. Scupham (Biology).

Pre-medical 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 pages 38-39. Further information about allied health fields may be obtained from the office of the Allied Health Adviser, Associate Professor G. Hicks. Under the course Group Studies 395 (see page 49), two topics are offered in the Summer I Session (see page 193) that are of interest to students in pre-medical 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 General Education Requirements for the Bachelor of Arts or Bachelor of Science degree with the exception that one course in theology and the integrative studies requirement are 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 make application 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. Pre-law students should, therefore, consult with their academic adviser and a Pre-Law 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.

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, as well as the entrance requirements of all Lutheran and other Protestant seminaries. 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 includes 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, including all the liberal arts pre-nursing requirements given on page 182, 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

Lutheran 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, communicative disorders 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.

Delta Chi is a professional society of deaconess students. This organization helps students in the understanding of the diaconate 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 who choose this course 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 Diocesan 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 one of 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 186 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 make application for Honors Work should understand that their work will be evaluated according to the highest standards of scholarly achievement. Honors Work may be taken by any student in the College of Arts and Sciences whose major or program is administered by a department or an administrative committee. 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 3.00 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. This plan must be presented to the chair of the student's department or program for approval and forwarded to the dean's office at least twenty-one days prior to the examination period 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 enroll in the first semester of the senior year in course numbered 497 "Honors Work (in the major department or program)."

A student who has been admitted to Honors Work must present four copies of a completed draft of the project to the chair of the major department or program at least ten days before the beginning of the final examination period of the student's first semester of the senior year. With prior approval, the student may substitute for the completed draft a status report demonstrating substantial progress in certain areas, such as in the experimental sciences. In the case of a status report, the student should describe the work accomplished during the semester and the plans for continued work during the following semester. The project is then judged at mid-year by a project committee consisting of the chair of the major department or program, the project adviser, one additional department reader, and one outside reader who is a member of the Scholarship and Advising Committee. If, based on the status report or draft, the project committee affirms the likelihood that the student will be able to conclude an exceptional piece of scholarship by the end of the following semester, that student will be admitted to Candidacy for Honors. If the project has not progressed as had been expected, the student will be denied
Cooperative Education

Cooperative Education in the College of Arts and Sciences is a program in which students combine professional, practical work experience with academic programs. Students may be employed in full-time (full- or part-time) and part-time (called paralleled) placements. Normally, a full semester, 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 for completion of two semesters in residence with a minimum cumulative grade point average of 2.50.
3. Placements require prior approval of the Coordinator of Cooperative Education.
4. Course credits count as electives toward graduation or, in certain academic departments, 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 experience 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

Freshman Seminar 100. Cr. 3. A limited enrollment course offered on a variety of topics and taught by faculty from across the University. Freshman Seminar introduces students to methods of study and inquiry central to a liberal education. By teaching skills of critical reading, thinking and writing, and integrating these with skills of oral presentation and productive discussion, the course encourages students in their learning and prepares them for lively participation in their academic careers. Students who transfer into the University with 24 or more semester hours of college credit may be included in the seminar. Students enrolled in the Christ College Freshman Program are exempted.

Note: Courses 330 and 335 are available in Overseas Study Centers only.

GS 330. Cambridge Tutorial:

English Life and Culture. Cr. 3. Tutorial study of aspects of English life and culture. Bi-weekly essays and meetings with tutor. Cambridge Center only.

GS 335. Reutlingen Tutorial:

German Life and Culture. Cr. 3. Studies in aspects of German life and culture. Bi-weekly essays and meetings with tutor. Reutlingen Center only.

Cooperative Education 381. Cr. 0-5.

This course is a pre-arranged, 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 2.00, and the approval of the Coordinator of Cooperative Education.

Cooperative Education 382-383. Cr. 0-5.

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 taken for a maximum of 5 credit hours. Additional credit, subject to the guidelines of the College, is stated on page 48.


An independent group project is conducted on a topic selected by the group. Grading is limited to the use of S, U. Prerequisites: Approval of a faculty sponsor and the Dean of the College of Arts and Sciences.

This course is administered by the Dean of the College for students who desire to work as a group on an academic project. A proposal for an independent group study project must be submitted at least three weeks before the beginning of the registration period for the semester in which the project is to occur. Further details and an application form may be obtained at the Office of the Dean of the College of Arts and Sciences.

Integrative Studies Requirement. The integrative studies requirement is a junior- or senior-level multidisciplinary course intended to bring together the broader knowledge students have acquired in general education and the more specialized knowledge acquired in their major disciplines in order to stimulate a synthesis of skills and knowledge and to inspire a commitment to the ethical responsibilities of informed citizenship. Integrative studies courses are developed and offered by clusters of related disciplines in the College of Arts and Sciences and, except with the approval of the Office of the Dean, are open only to students majoring in one of the disciplines in the cluster who sponsors the course.

The Integrative Studies requirement must be taken on the Valparaiso University campus or as part of an approved off-campus program.

Urban Seminar. 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 given 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. SU grade.

GS 345. 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, Saxism and Racism, The Helping Professions, Dynamics of Urban Housing. Graded A-F.
American Studies

Administrative Committee:
Professor Feaster (English, Chair);
Professors Albers (Theology), Janke
(Geography), Pielke (Christ College),
Spector (English), Trout (Political
Science); Associate Professors Brauer
(Art), Kohlihoff (History).

Students completing the Program in
American Studies will have fulfilled major field
requirements for the Bachelor of Arts degree
under the American Studies 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 materials on
microfiche; 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.

Honors Work may be undertaken in
American Studies with appropriate approval.
Students should register for American Studies
(AMST 497: Honors Work in American
Studies, and 498: Honors Candidacy in
American Studies (see page 47).

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

Art 330 or 331 American Painting
or American Architecture ........ 3 Cr.

English 401 and 402 American Literature .......... 6 Cr.

Geography 474 Historical Geography
of the U.S. ................................ 3 Cr.

History 220 and 221 U.S. History ................. 6 Cr.

Political Science 120 Government
of the U.S. ................................ 3 Cr.

Theology 324 The American Religious
Experience ........................................ 3 Cr.

Elective Courses

Art 311 Modern Art since 1945 ....... 3 Cr.

Christ College 300 Seminar-Modern
the Movies .................................. 3 Cr.

Christ College 300 Seminar-American
Social Thought ............................. 3 Cr.

Christ College 300 Seminar-Literature
of the American Dream .................. 3 Cr.

Economics 300 Economic History
of the U.S. ................................ 3 Cr.

English 355 Studies in American Literature ...... 3 Cr.

English 390 Topics in Literature ............ 3 Cr.

Note: the Department of English offers courses
under both 365 and 390 that are applicable to
the American Studies Program. Recent offerings
include Literature of the South, American Literary
Realism, Fiction by American Women.

Geography 174 North American
Indian ....................................... 3 Cr.

Geography 310 Seminar-Literature
and Regionalism, 1815-1860 ........ 3 Cr.

History 321 The American Revolution,
1763-1789 ................................ 3 Cr.

History 322 Slavery, Abolitionism,
and Secession, 1815-1860 ............. 3 Cr.

History 323 Civil War and Reconstruction .... 3 Cr.

50

51
Art

**Associate Professors Brauer, Frey; Assistant Professors Corazzo, Lempmann, Morgan (Chair), Sirko.**

The Valparaiso University Art Department offers instruction in basic design, graphic design, drawing, painting, photography, sculpture, ceramics, art of fiber, art education and art history. Interdisciplinary majors are possible which combine these areas with such fields as journalism, interior design, drama, marketing and others. Upperclass majors typically work independently with individual members of the faculty. Gallery and cultural resources on campus and in nearby Chicago are an integral part of the curriculum. The University has the endowed Sloan Collection of American Paintings and an active exhibition program.

A major in art may lead to careers in the fine arts and related fine arts services such as museum technology and gallery sales; in areas of visual communication such as graphic design, photography and illustration; and in the field of art education. A graduating art major is also prepared for graduate study in art history and the fine arts.

**Major.** A minimum of 30 credit hours in art which must include Art 101, 102, 121, 132, 162, 221, 231, and 251. The Bachelor of Science in Fine Arts degree requires 54 credit hours of art; see page 43.

After completion of the core courses for each degree, a concentration must be chosen in painting, sculpture, ceramics, photography, graphic design or art history. Recommendation for admission to the B.S. in F.A. program requires a portfolio presentation to the faculty of the Art Department by the beginning of the junior year. Descriptions of specialized programs as well as suggested curricula are available from the Department Chairman. Field trips, art exhibitions, visiting artists and similar events are integral parts of the program of the Art Department.

**Minor.** A minimum of 15 credit hours in art constitutes a minor. The student may concentrate in studio art or art history. For studio art: Art 101 or 121, 132, and 162 or 231 must be included. For art history: Art 101 and 102 must be included in addition to three other art history courses in the department.

**Degrees.** Completion of the degree requirements of the College of Arts and Sciences with a major in art leads to the Bachelor of Arts degree intended to provide a general art background, or the Bachelor of Science in Fine Arts degree primarily intended for students desiring to continue their training at the professional or graduate school level. See page 43 for the requirements for the B.S. in F.A. degree.

Specialization in art education is possible in either the B.A. or the B.S. in F.A. program; consult the Education Department concerning state and University requirements.

**Approval of Schedules.** Students who take a major or a minor in art must have their schedules approved by the Chair of the Department at the beginning of each semester. Students who expect to teach art should consult, as early as possible, the appropriate adviser in the Education Department concerning state and University Requirements.

**ART HISTORY**

101. **Art History I.** Cr. 3. A survey of art history from prehistoric times through the Gothic period. Field trip. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

102. **Art History II.** Cr. 3. A survey of art history from the Renaissance to the 19th century. Field trip. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

311/511. **Topics in the Theory and History of Art.** Cr. 1-4. An investigation of major periods or developments in the visual arts. Included may be historical topics such as medieval or non-Western art history, the history of art theory or such topics as aesthetics or color theory. Field trip. May be repeated for credit provided topics are different. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

317/517. **17th and 18th Century European Art.** Cr. 3. A seminar course tracing major themes in Italian, French, Spanish, Netherlandish, 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. Permission: junior standing or approval of the Chair of the Department.
318. 19th Century European Art.
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.

319/319 Early 20th 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.

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.

321/521 American Architecture.
Cr. 3. A survey of American architectural 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.

STUDIO

121. Drawing.
0+6, Cr. 3. A basic course in the fundamentals of drawing and using various media. Field trip.

0+6, Cr. 3. A study of more advanced techniques and problems involving the drawing media, to include the human figure. Field trip. Prerequisite: Art 121.

132. Introduction to Design.
0+6, Cr. 3. A course introducing the basic elements and principles of two-dimensional and three-dimensional design. Field trip.

151. Ceramics.
0+6, Cr. 3. Basic ceramic processes including wheel throwing, hand building, tapestry and coiling. Field trip.

152. Ceramics: Advanced Studies.
0+6, Cr. 3. Advanced problems in clay construction and glaze formation with opportunities for specialization. Field trip. Prerequisite: Art 151.

162. Photography I.
0+6, Cr. 3. Introduction to the techniques, history, and aesthetics of black-and-white photography. Field trip.

221. Painting.
0+6, Cr. 3. Problems in painting in oil and other media. Emphasis on color theory and composition. Field trip. Prerequisite: Art 121.

222. Painting: Advanced Studies.
0+6, Cr. 3. Continuation of Art 121 with increased concentration on students' individual interests. Field trip. Prerequisite: Art 221.

230. Desktop Publishing.
0+6, Cr. 3. (Also offered as Communication 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.

231. Graphic Design I.
0+6, Cr. 3. Problems in visual communications focused on the language of form. Emphasis is placed on typography and an introduction to computer aided design. Field trip.

232. Graphic Design II.
0+6, 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.

251. Sculpture.
0+6, Cr. 3. Problems in forming sculptural statements in various materials and techniques such as concrete casting, metal welding, wood construction, etc. Field trip. Prerequisites: Art 121 and 133 or consent of the instructor.

0+6, Cr. 3. Advanced problems in sculpture processes. Field trip. Prerequisite: Art 251.

262. Photography II: Color.
0+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.

268. Photocopying.
Cr. 3. Study of photography for publications, camera and darkroom techniques. Principles and production of single photographic images, photo series, photographic essays, the photo layout, and slide/sound presentation. Field trip.

274. Art of Fiber.
0+6, Cr. 3. A basic course in fiber manipulation, including loom weaving, tapestry, coiling. Field trip.

0+6, Cr. 3. Advanced techniques and problems in the art of fiber. Field trip. Prerequisite: Art 274.

290. Topics in Art.
Cr. 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.

ART EDUCATION

341. Elementary School Art-Methods and Materials Workshop.
0+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 a minor in art. Field trip.

342. Secondary and Middle School Art-Methods and Materials Workshop.
0+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.

489. The Teaching of Visual Arts.
Cr. 2. (See Education 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. Field trip. Prerequisite: admission to Supervised Teaching.

SPECIAL STUDIES

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 S/U grade option may be stipulated at the beginning of the course. May be repeated for credit. Graphic Design Internship is taken S/U only. 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 graduates: undergraduate art major or consent of instructor.

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.

495. Independent Study in Art.
Cr. 3. Independent work for junior or senior level students under the supervision of an instructor. Prerequisite: consent of the instructor.

497. Honors Work in Art.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Art.
Cr. 3. See Honors Work, page 47.
Biology

Professors F. Meyer, Tan; Associate Professors G. Davis, G. Evans, Hicks, Scupham (Chair); Assistant Professors Eberhardt, Shipley-Phillips.

Biology is the disciplined study of living organisms. It is also a vital part of liberal education, enabling students to develop an appreciation of their own biological nature as well as of the great variety of organisms and communities of organisms with which they come into contact and upon which they are dependent.

The study of biology may be at many levels: molecular, cellular, organismic, population, community, ecosystem. The department offers instruction at each of these levels designed to meet the requirements for graduate study, for professional schools, and for a teaching career in biology or for working in industrial or governmental positions.

The Biology Department is housed in the Neil Science Center, a modern teaching-research facility with state-of-the-art equipment such as advanced research light microscopes and electron microscopes. Nearly all biology courses have a laboratory component. Biology majors and other experienced faculty. The department makes extensive field trips for its organismal biology laboratory courses to the Indiana Dunes National Lakeshore, which ranks third of all National Parks in species diversity, and at other distinguished natural history institutions in the Chicago area. Biology majors are encouraged to conduct research under the supervision of a faculty member as a part of the graduation requirements. Majors also have opportunities to study abroad at the University's overseas centers or at affiliated institutions as well as at many highly recognized programs sponsored by national laboratories and other esteemed institutions.

Pre-Medical Arts Programs. A major in biology is an appropriate preparation for admission into professional schools and programs such as medicine, dentistry, hospital administration, medical technology, optometry, osteopathy, physical therapy, podiatry, public health, veterinary medicine and other allied health fields. Further information may be obtained from the Chair of the Department or members of the Committee on Pre-Medical Arts.

Major. A minimum of 28 credit hours in biology is required for the Bachelor of Arts degree. Courses must include Biology 171, 172, 270, two of courses 290 to 370, two of courses 420 to 460 and 2 credit hours in 493 and/or 496. A minimum of 25 credit hours in biology fulfills the minimum requirement for a Bachelor of Science degree, provided that a second major is taken in another science (chemistry, computer science, geology, mathematics, meteorology, physics or psychology). Courses must include Biology 171, 172, 270, one of courses 290 to 370, two of courses 420 to 460 and 2 credit hours in 493 and/or 496. A minimum of 32 credit hours in biology fulfills the requirements of the Bachelor of Science degree with a single major plus one of the following: a non-science major, a Liberal Arts Business Minor, a science minor, or an education minor. Courses must include Biology 171, 172, 270, two of courses 290 to 370, two of courses 420 to 460, and two credit hours in 493 and/or 496, plus four additional credit hours chosen from Biology 290 to 498. A minimum of 40, but not more than 48 credit hours in biology fulfills the requirements of the Bachelor of Science degree without a minor. Courses must include Biology 171, 172, 270, two of courses 290 to 370, two of courses 420 to 460, two credit hours in 493, two credit hours in 496, plus at least six additional credit hours chosen from Biology 290 to 498. Majors who are candidates for the Bachelor of Science degree must take two semesters of general chemistry and one semester of organic chemistry in addition to the requirement in mathematics or its equivalent (see page 42).

Majors who are candidates for the Bachelor of Arts degree must take two semesters of 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 Biology 171, 172, 270 and four additional credit hours from Biology 290 to 493.

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

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

Approval of Schedules. All students taking a major or minor in biology and all students planning to teach biological subjects must have their schedules approved by the Chair of the Department at the beginning of each semester.

Note: Entering students who satisfy requirements for Biology 171 or equivalent by passing a departmental placement examination at the beginning of the freshman year, the College Level Examination Program (CLEP) examination in Biology, or the Advanced Placement Examination (AP) in Biology are granted 4 credit hours toward graduation.

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 Biology 151 or 171.

151. Human Biology I.
3+3, Cr. 4. An introductory study of the physical and chemical nature of cells and tissues, cell division and human genetics, the musculoskeletal system, the nervous system and special senses and the endocrine system and chemical control. May be used in partial fulfillment of the General Education Requirements in Natural Science. Credit is given for either Biology 151 or 171 but not both. This course is required for nursing, physical education, and some allied health students.

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 and reproductive. May be used for partial fulfillment of the General Education Requirements in Natural Science. Prerequisite: Biology 151.

171. Unity of Life.
3+3, Cr. 4. A study of organic molecules, cells, tissues and organs for biology majors and 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. Credit is given for either Biology 151 or 171 but not both. This course is required for biology majors and general biology minors including premedical and other preprofessional students.

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 and ecology, evolution and the social and economic importance of representative members. May be used in partial fulfillment of the General Education Requirements in Natural Science. Prerequisite: Biology 171 or 151 or equivalent.

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: Biology 151 or 171 and Chemistry 111 or 121.

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 quantitative and qualitative 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: Biology 151 or 171 or equivalent.

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: Advanced Light Microscopy, Biostatistics, Ecology of South Florida, Electron Microscopy, Experimental Botany, Human Genetics, The Art of Scientific Investigation.

320. Comparative Vertebrate Anatomy.
2+3, Cr. 3. A comparative study of representative vertebrate animals, with emphasis on structures, functions and laboratory dissections. Prerequisite: Biology 152 or 172.
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: Biology 270.

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: Biology 172.

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, the most abundant organisms at this time, but in the field attention is paid to other common or conspicuous organisms. Prerequisite: Biology 172.

370. 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. Prerequisite: Junior standing.

420. Developmental Biology.
3-3, Cr. 4. An introduction to the descriptive and analytic study of plant and animal development and growth, with emphasis on higher plants and vertebrate animals. Prerequisite: Biology 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. Prerequisite: Biology 172 and preferably a prior field course.

450. Molecular Genetics.
3-3, Cr. 4. A study of the molecular basis of genetic interactions and physiological processes in prokaryotic and eukaryotic organisms. Topics include biochemistry, immunology, and genetic engineering with medical and pharmacological applications. Laboratories emphasize standard microbiological techniques as well as recent advances in cloning and molecular genetics. Prerequisites: Biology 270 and Chemistry 211 or 221.

460. Cell Physiology.
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 and cell organelles, energy transduction and synthesis, membrane transport, excitability and contraction. Prerequisite: Biology 270 and Chemistry 221.

489. The Teaching of Natural Sciences.
Cr. 2. (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. Prerequisite: admission to Supervised Teaching.

493. Seminar in Biology.
Cr. 1. Student and staff presentation and discussion of selected topics in biology. Current topics are Animal Behavior, Biology of Algae, Economic Botany, Endocrinology, Genetic Toxicology, How to Build an Embryo, Human Evolution, Immunology, Protozoology, Somatic Cell Genetics, Temperature Regulation, Viruses. 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. SU/grade optional.

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

497. Honors Work in Biology.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Biology.
Cr. 3. See Honors Work, page 47.

Chemistry

Professors Cook, Kosman (Chair), Leoschke; Assistant Professors Bradley, Engerer, Goyne.

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, and the Beta Sigma Chapter of the Phi Lambda Upsilon Chemistry Honorary Society is located here. A student may choose to work toward a Bachelor of Arts degree which requires at least 24 credit hours in chemistry, a Bachelor of Science degree which requires at least 32 credit hours in chemistry or a Bachelor of Science degree in professional chemistry which requires at least 40 credit hours in chemistry.

Pre-Medical Arts Programs. A major in chemistry is an appropriate preparation for admission into professional schools and programs such as medicine, dentistry, hospital administration, medical technology, optometry, osteopathy, physical therapy, podiatry, public health, veterinary medicine and other allied health fields. Further information may be obtained from the Chair of the Department or members of the Committee on Pre-Medical Arts.

Major. There are three different chemistry majors which a student may choose to pursue:

1. Bachelor of Arts degree. A minimum of 24 credit hours in chemistry is required. Courses must include Chemistry (122 or 131), 222 and 230. A combination of this major with a minor in another science can lead to a Bachelor of Science degree (see page 42).

2. Bachelor of Science degree. A minimum of 32 credit hours in chemistry is required. Courses must include Chemistry (122 or 131), (190 or 495), 222, 230, and (311 or 321).

3. Bachelor of Science degree in Professional Chemistry. The program leading to this degree 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 Chemistry (122 or 131), 190, 222, 230, 322, 323, 324, 332, 421, 422, 2 credits of 495, and 3 credit hours of advanced courses selected from 315, 316, 317, 390, 440, 450, and 460. Germs is the final selection of the foreign language. With the approval of the Chair of the Department, the chemistry elective may be the Honors Work sequence, Chemistry 497 and 498.

Biochemistry Concentration. Within either of the two Bachelor of Science degree options listed above, a student may choose to have a biochemistry concentration. This concentration requires the following courses: Chemistry 316 and 317, Biology 171 and 270 along with the courses listed above.

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 accrue cooperative 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 Chemistry 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 48.

Placement Examination. Students who pass the Chemistry Placement Examination (4 credits) and successfully complete Chemistry 131 (4 credits) are granted credit hours toward graduation.

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.

111. General Chemistry I
3+2, Cr. 4. Intended for students who elect chemistry to meet one of the natural science requirements. Not open to students who have taken Principles of Chemistry. Students taking a major or minor in Elementary Education, Home Economics, Nursing or Physical Education should take this course to meet their chemistry requirement. Not open to students who have taken Chemistry 121.

112. General Chemistry II
3+2, Cr. 4. A continuation of Chemistry 111. It includes the study of organic chemistry and biochemistry. Not open to students who have taken Chemistry 122. Prerequisite: Chemistry 111 or 121.

115. General Chemistry
3+2, Cr. 4. Similar to Chemistry 121 except for laboratory hours. For engineering students.

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 accrue cooperative 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 Chemistry 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 48.

Placement Examination. Students who pass the Chemistry Placement Examination (4 credits) and successfully complete Chemistry 131 (4 credits) are granted credit hours toward graduation.

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.

111. General Chemistry I
3+2, Cr. 4. Intended for students who elect chemistry to meet one of the natural science requirements. Not open to students who have taken Principles of Chemistry. Students taking a major or minor in Elementary Education, Home Economics, Nursing or Physical Education should take this course to meet their chemistry requirement. Not open to students who have taken Chemistry 121.

112. General Chemistry II
3+2, Cr. 4. A continuation of Chemistry 111. It includes the study of organic chemistry and biochemistry. Not open to students who have taken Chemistry 122. Prerequisite: Chemistry 111 or 121.

115. General Chemistry
3+2, Cr. 4. Similar to Chemistry 121 except for laboratory hours. For engineering students.

121. General Chemistry I
3+3, Cr. 4. A continuation of Chemistry 121 with an emphasis on descriptive inorganic chemistry. Semi- micro inorganic qualitative analysis is included in the laboratory work. Prerequisite: Chemistry 121.

131. Chemistry I
3+3, Cr. 4. An accelerated introductory course in the fundamental principles of chemistry for students with a strong background in chemistry. Admission by Departmental Placement Examination.

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

221. Organic Chemistry I
3+3, Cr. 4. An introductory survey of the nomenclature, reactions, structures and properties of carbon compounds. Prerequisite: Chemistry 122 or 131.

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

230. Quantitative Analysis
3+4, Cr. 4. A study of the theory of chemical equilibria, electrochemistry and elementary chemical analysis. The laboratory work consists of an introduction to gravimetric, volumetric and instrumental methods of analysis. Prerequisite: Chemistry 122 or 131.

305. Elementary Biochemistry
Cr. 4. The chemistry of proteins, carbohydrates, fats and nucleic acids, and the changes these undergo during processes of digestion and metabolism. This course is designed for premedical students needing a one-semester survey of biochemistry. Prerequisite: Chemistry 222 or consent of the instructor.

311. Elementary Physical Chemistry
Cr. 3. A one-semester course in physical chemistry covering elementary thermodynamics and kinetics, together with their applications to various chemical systems. Prerequisite: Chemistry 221 and 230 or equivalent. Not open to students who have taken Chemistry 321.

315. Biochemistry I
Cr. 3. 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: Chemistry 222, 311 or 321 (may be concurrent) or consent of instructor.

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

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

321. Physical Chemistry I
Cr. 3. A theoretical study of chemistry involving thermodynamics, kinetics and modern structural concepts. Prerequisites: Chemistry 221 and 230; 230 may be taken concurrently; Mathematics 152 or equivalent, Physics 142.

322. Physical Chemistry II
Cr. 3. A continuation of Chemistry 321. Prerequisite: Chemistry 321.

323. Thermodynamics and Structure Laboratory
1+3, Cr. 2. Physical chemistry experiments involving thermodynamic and structural properties of atoms and molecules. Prerequisite: Chemistry 311 or 321 (may be taken concurrently).

324. Spectroscopy and Bonding Laboratory
1+3, Cr. 2. Physical chemistry experiments demonstrating the bonding properties of molecules, and the spectroscopic properties of atoms and molecules. Prerequisite: Chemistry 322 (may be taken concurrently).

325. Instrumental Analysis
2+4, Cr. 3. A study of the theory and practice of instrumental techniques including computerized data acquisition and analysis. Prerequisite: Chemistry 322 (may be taken concurrently).

380. 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, Bellstein, chemical journals and government publications in chemistry. Includes discussion and practice with computerized data bases. Library work leads to 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.

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

389. The Teaching of General Chemistry
Cr. 0.5-3.方法 of teaching general chemistry examination. Topics include general teaching methods, methods of teaching, methods of teaching in general chemistry, and guest presentation. Prerequisites: Chemistry 381, satisfactory employer evaluation; and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

389. The Teaching of Natural Sciences
Cr. 0.5-3.方法 of teaching natural sciences examination. Topics include general teaching methods, methods of teaching, methods of teaching in natural sciences, and guest presentation. Prerequisites: Chemistry 381, satisfactory employer evaluation; and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

393. 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 Chemistry 493. S/U grade.

395. Special Problems in Chemistry
Cr. 1-2. 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 Chemistry 493 concurrently to report orally on research results. May be repeated for additional credit. S/U grade. Prerequisite: consent of Chair of the Department.

497. Honors Work in Chemistry
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Chemistry
Cr. 3. See Honors Work, page 47.
Communication

Associate Professors Galow, Kocher (Chair); Assistant Professors Guse, Neff; Adjunct Professor Flahive; Adjunct Assistant Professor H.Brown.

The Department of Communication focuses on teaching the process of communication as it applies to the several fields it represents: journalism, public relations, and speech. 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 solid preparation in the liberal arts. It seeks a balance between liberal arts and skills courses within the department, believing that this balance is essential to developing good communicators, not just technicians trained for particular jobs. The department’s programs also strive to demonstrate the linkages between communication studies and the larger issues of the global community.

The communication major allows specialization in several areas at the junior and senior levels, including print and broadcast journalism and public relations. Core course and sequencing requirements permit flexibility in arranging a program which focuses on individual student interests in communication.

Major. The communication major consists of 36 credit hours. Required courses are Communication 101, 201, 369, 386 and 460; at least 6 hours and no more than 10 from the following, normally taken during the sophomore year: Communication 243, 250, 251, 261, and 269; 6 to 9 credit hours of junior and senior years selected from Communication 290, 342, History 330; History of the Press in America; and Political Science 326, 327, or 361; and 6 credit hours selected from Communication 247, 262, 263, 266, 344, 353, 354, 366, 367, 368, 374, and 390.

Minor. A communication minor is 18 credit hours consisting of Communication 101, 201, 261, and nine hours of Communication electives approved by the Chair of the department.

Program in Communicative Disorders. This program is not available for entering students and is being phased out during the 1994-95 academic year. Students may not count a minor in the Department of Communication for purposes of graduation if they are majoring in communicative disorders or if they declare one of those majors later.

Teaching Programs. Students who plan to teach journalism or speech communication and theatre in secondary schools with a major or minor in communication 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 48.

Degree. Students completing the communication major 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 adviser at the beginning of each semester.

SPECIAL OPPORTUNITIES

Television/Radio Studio. The Department teaches all television and radio classes in its new studio. The studio is fully equipped for all levels of production and provides a quality laboratory experience. Students are also placed as interns in television, radio and cable studios in the area.

Speech, Language and Hearing Clinic. The clinic is a service offered by the Department to persons in the University and the community with communicative disorders. It also serves as a laboratory for the courses in Communicative Disorders. Anyone interested in remedial speech, language, and hearing work should consult the Clinic Coordinator.

Students enrolling in any of the department’s laboratory or technical courses are financially responsible for breakage or damage to equipment.

Student Organizations. Students with an interest in journalism are invited to join the Society for Collegiate Journalists. Those with an interest in communicative disorders are invited to join the National Student Speech, Language, and Hearing Association.

COMMUNICATION DISORDERS

310 Speech Pathology: Children. Cr. 4. An examination of the nature, causes, symptoms, and remediation of speech problems among children. Prerequisites: Communicative Disorders 123, 221, and 225. Offered for the last time Fall 1994.

311 Speech Pathology: Adults. Cr. 4. An examination of the nature, causes, symptoms, and remediation of communicative disorders among adults. Prerequisites: Communicative Disorders 123, 221 and 225. Offered for the last time Spring 1995.

350 Basic Audiology. Cr. 3. Fundamental aspects of the physics of sound, hearing mechanism and hearing disorders. Prerequisite: Communicative Disorders 222. Offered for the last time Fall 1994.

351 Aural Rehabilitation. Cr. 3. The theory and practice of aural rehabilitation. Contemporary practices regarding hearing aids, speechreading and auditory training. Prerequisite: Communicative Disorders 350. Offered for the last time Spring 1995.

390 Topics and Projects. Cr. 1-3. Individual or group. Specific topics or projects based on special interests of students and faculty. Content may vary from one semester to another. Prerequisite: consent of the Program Director.

402 Aspects of Clinical Practice. Cr. 3. The critical elements of clinical function including theories of diagnosis and appraisal, counselling, and basic research methods. Prerequisites: Communicative Disorders 310 and 311. Offered for the last time Spring 1995.

427 Beginning Clinical Practice. Cr. 2. Beginning clinical activities conducted in the Speech and Hearing Clinic. Students register for a minimum of four credits of practicum. Prerequisites: Communicative Disorders 230, 310, 311 and approval of the Program Director. Offered for the last time Spring 1995.

428 Clinical Practice. Cr. 2. Advanced practicum. Prerequisite: Communicative Disorders 427 and approval of the Program Director. Offered for the last time Fall 1995.

COMMUNICATION

101 Media Presentation. Cr. 3. An introduction to a variety of media writing contexts, including news, public relations, and writing for public speaking. Students will also be expected to make oral presentations. Primarily intended for communication majors as preparation for more advanced coursework in the department.

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 speaking/chair experiences.

148 Interpersonal Communication. Cr. 3. A study of human communication dealing with interpersonal, dyadic, small group and non-verbal areas. Students participate in a variety of semi-structured and pre-structured communication events.

201 Historical Development of Communication. Cr. 3. This course surveys the contexts and development of print, public relations, electronic media, and rhetorical history. Developments in each area will focus on the larger governmental, economic, and social contexts within which each operates. Prerequisites: Communication 101 and sophomore standing.

230 Desktop Publishing. Cr. 6. Cr. (Also offered as Art 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.

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.

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.

250 Radio Production. Cr. 3. A practical course in radio production. Production planning, scripting, using sound effects, recording, mixing, editing and performing. Prerequisite: Communication 101.
281. Television Production.  
Cr. 3. (Also offered as Theatre and Television Arts 251.) A practical course in television production. Students produce programs and acquire experience in all phases of production, including scripting, shooting, editing and performing. Prerequisite: Communication 101.

281. News Writing.  
2+4, Cr. 4. A course in the fundamentals of news writing and news gathering. Practice in writing various types of news stories; problems of in-depth writing and reporting; introduction to newspaper organization and methods. Laboratory and field work. Prerequisite: English 100 or equivalent.

282. Copy Editing.  
Cr. 2. A course in copy editing, headline writing and newspaper layout. Basic principles of news evaluation, photo editing and introduction to newspaper layout. Laboratory practice. Prerequisite: Communication 261 or consent of the instructor.

283. Advanced News Practice.  
Cr. 3. A course for the advanced journalism student, comprising in-depth reporting, opinion and editorial writing, specialized writing. Prerequisite: Communication 261 or consent of the Chair of the Department.

284. Principles of Public Relations.  
Cr. 3. Survey of the history, development, principles and practices of public relations, investigation of public relations ethics, relationships and role in mass media and society; case studies and experiments in public relations practices. Prerequisite: Communication 261 or consent of the Chair of the Department.

285. Feature Writing.  
Cr. 3. A course in human interest writing. Creative news writing emphasizing originality of style and imaginative treatment in composition of news features and the personality sketch. Laboratory practice. Prerequisite: Communication 261 or consent of the Chair of the Department.

286. Topics in Communication.  
Cr. 3. Specific topics based on interests of students and faculty. Topics may vary from one semester to another. May not be repeated for credit. Prerequisite: sophomore standing.

287. Rhetorical Thought.  
Cr. 3. A study of the theories of rhetoric as a force in the political and intellectual development of Western cultures. This course includes selected theorists from Plato and Aristotle to Kenneth Burke.

288. Advertising.  
Cr. 3. A study of advocacy through logical discourse. This course includes structured experiences in the research and development of argument, case construction, refutation and evidence. The Lincoln-Douglas, cross-examination and traditional debate formats are used.

289. Broadcast Programming.  
Cr. 3. Theories of programming, current program forms, examination of the structure and function of television and radio programming practices, including relationships to entertainment, information and the audience. Prerequisite: Communication 101.

Cr. 3. A course in the fundamentals and special requirements of radio and television news reporting, writing and editing. Laboratory and field work. Prerequisite: Communication 261 or consent of the Chair of the Department.

291. Advanced Television Production.  
Cr. 3. (Also offered as Theatre and Television Arts 358.) Workshop format emphasizing advanced production and program practices. Projects include preparation of television materials for possible off-campus usage. Prerequisite: Communication 261 or consent of the Chair of the Department.

292. Editorial and Opinion Writing.  
Cr. 3. A course in structure, style and principles of editorial, column, commentary and critical review writing. Laboratory practice. Prerequisite: Communication 261 or consent of the Chair of the Department.

293. Public Relations Copywriting.  
Cr. 3. Persuasive and effective copywriting. Prerequisites: Communication 261 and 265.

294. Media Law and Ethics.  
Cr. 3. Discussion of major legal and ethical issues which affect the mass media. Prerequisite: junior or senior standing or consent of the Chair of the Department.

295. Advanced Public Relations.  
Cr. 3. Advanced study with emphasis on practical work, problem solving and case studies. Prerequisite: Communication 265 or consent of the Chair of the Department.

296. 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.

297. Cooperative Education in Communication II-III.  
Cr. 0.5-3. Continuation of Communication 281. Prerequisite: Communication 261 and approval of the Chair of the Department. May be repeated beyond 383 for additional credit.

298. Internship.  
Cr. 3. Internships in which students may intensively study a particular area of communication. Prerequisite: consent of the department Internship Coordinator. Open to declared communication majors only.

299. Topics and Projects.  
Cr. 1-3. Individual or group. Specific topics or projects based on special interests of students and faculty. Topics and projects vary from one semester to another. Prerequisites: consent of the Chair of the Department.

300. Communication Research Seminar.  
Cr. 3. Application of communication research techniques to selected topics, such as censorship in the arts, libel law, and media sensationalism. Research techniques may include content analysis, surveys, experiments, and historical methods. Prerequisite: senior standing or consent of the Chair of the Department.

301. Mass Media in Modern Society.  
Cr. 3. Study of interaction between mass media and society. Freedom of the press theories, communication theory and relationships in the role of mass media with government, business, the courts and other segments of society. Open to juniors and seniors.

302. Supervision of Student Publications.  
Cr. 3. Problems and practices of supervision of secondary school student newspapers, magazines, yearbooks and other school publications. Includes examination of state-adopted texts, the role of the high school press, budgeting and financial responsibilities, organizing staffs, working with school administration, establishing curriculum, reviewing other school publications and basic journalistic styles. May not be counted toward a major or minor in this Department. Field Trip. Prerequisite: admission to Super-ideal Teaching and Communication 262, or consent of the designated adviser.

303. Honors Work in Communication.  
Cr. 3. See Honors Work, page 47.

304. Honors Candidacy in Communication.  
Cr. 3. See Honors Work, page 47.


**East Asian Studies**

**Administrative Committee:**
Professor Schoppa (History, Chair); Professors Ludwig (Theology); Associate Professor Henderson (Economics); Assistant Professors Kavanagh (Foreign Languages and Literatures), Lin (Political Science), McGuigan (College of Arts and Sciences); Instructor Lynn (Christ College).

Students completing the program in East Asian 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 East Asian Studies.

**Objectives.** Programs in East Asian 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, Japan, and Korea. In addition to developing some proficiency in the 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 Hangzhou 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. A number of these courses may also be counted toward fulfillment of the General Education Requirements for the Bachelor of Arts degree. Japanese 101 and 102 may fulfill the Foreign Language requirement; any of the Sociology courses may fulfill the Sociology Level III requirement; any of the History courses or Philosophy 280 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 East Asia 115 and 493, History 240, History 241, Japanese 101 and 102 or Chinese 101 and 102 or East Asia 109 and 110, Japanese 250 or 251, Political Science 336 or 480 (East Asia), Theology 366, one additional course in History, plus 21 credits in elective courses.

**Complementary Major.** A student fulfilling major field requirements under a Major Option in another field may present as a second major an area major in East Asian Studies. 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 East Asia 115 and 493, History 240, History 241, Japanese 101 and 102 or Chinese 101 and 102 or East Asia 109 and 110, Japanese 250 or 251, Political Science 336 or 480 (East Asia), Theology 366, one additional course in History, plus 9 credits in elective courses.

**Minor.** A student fulfilling major field requirements under a Major Option in another field may present an area minor in East Asian Studies for the required minor. The requirement for the minor is a minimum of 18 credit hours selected from the following list of courses. Courses must include East Asia 115, History 240, History 241, and Theology 366. It is strongly recommended that the student also complete Japanese 101 and 102 or Chinese 101 and 102 or East Asia 109 and 110. Only one course in Japanese or Chinese may be counted toward the East Asian 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>History 341</td>
<td>History of Modern China</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>History 342</td>
<td>History of Modern Japan</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>History 350</td>
<td>Topics in History</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>History 492</td>
<td>Reading and Discussion</td>
<td>2-3 Cr.</td>
</tr>
<tr>
<td>Japanese 101</td>
<td>Beginning Japanese I</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Japanese 102</td>
<td>Beginning Japanese II</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Japanese 203</td>
<td>Intermediate Japanese I</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Japanese 204</td>
<td>Intermediate Japanese II</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Japanese 250</td>
<td>Topics in Japanese Literature and Fine Arts</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Japanese 261</td>
<td>Introduction to Japanese Literature</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Japanese 305</td>
<td>Advanced Japanese</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Japanese 499</td>
<td>Supervised Reading and Research in Japanese</td>
<td>1-4 Cr.</td>
</tr>
<tr>
<td>Music 421</td>
<td>Pro-Seminar in Music</td>
<td>2-3 Cr.</td>
</tr>
<tr>
<td>Philosophy 290</td>
<td>Non-Western Philosophy</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Philosophy 335</td>
<td>Topics in Political Science</td>
<td>3 Cr.</td>
</tr>
</tbody>
</table>

**Approval of Schedules.** All students taking a major in East Asian Studies must have their schedules approved by the Chair of the Administrative Committee at the beginning of each semester. East Asia 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.
Economics

Professor Henderson (Chair); Associate Professor Bernard, Keating; Assistant Professor Shingleton.

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 economist and others.

Students who distinguish themselves by high scholarship may be elected to Omicron 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:

1. General Economics. At least 27 credit hours in economics constitutes this major. Courses must include Economics 221, 222, 321, 322, and 325. In addition, either Decision Science 205 or Mathematics 240 is required.

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

3. General Economics Minor. A minimum of 18 credit hours in economics constitutes a minor. Courses must include Economics 221, 222, and 12 hours of elective course work in economics.

**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.

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

**136. 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.

**221. Principles of Economics-Micro.**

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.

**222. Principles of Economics-Macro.**

Cr. 3. A macro-economic analysis with emphasis on national income, consumer spending, investment, government and monetary aspects.

**233. The Economics of Race and Gender.**

Cr. 3. Investigates the employment gap and earnings gap 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.

**236(formerly 346). Comparative Economic Systems.**

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.

**321. Intermediate Micro-Economic Theory.**

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: Economics 221.

**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: Economics 222.

**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: Economics 221.

**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: Economics 221 and 222, Mathematics 240 or Decision Science 205 or equivalent.

**326. International Economics.**

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 given to the trade 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: Economics 221 and 222.

**330. Industrial Organization.**

Cr. 3. The analysis of the economic factors underlying the structure, conduct and performance of American industry. Prerequisite: Economics 221.

**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: Economics 221 and 222.

**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: Economics 221.

**335. Urban Economic Problems.**

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: Economics 221 and 222.

**336. Economics of Developing Nations.**

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: Economics 221 or 222 or consent of the instructor.

**337. 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: Economics 221 or 222.

**339. 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: Economics 222.

**360. Economic History of the United States.**

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

**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.

**370. The History of Economic Thought.**

Cr. 3. Economic thought in its historical development from the Mercantilists to the present day. Prerequisite: Economics 221 or 222 or consent of the instructor.

**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: Economics 221 and 222. Recommended for senior students.

**493. Seminar in Applied Statistics.**

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

**495. Independent Study in Economics.**

Cr. 1-3. Independent study to be approved by the Chair and the economics advisor.

**497. Honors Work in Economics.**

Cr. 3. See Honors Work, page 47.

**498. Honors Candidacy in Economics.**

Cr. 3. See Honors Work, page 47.
Education

Professor Spackhard: Associate Professors Brandhorst, Condos, Livdahl (Chair), Michelsen, Reiser; Assistant Professors Brigham, Clark, Riffel.

The Education Department offers programs of study leading to certification for elementary and secondary school teaching. In addition, the teacher candidate may add specialization in reading or special education (learning disabilities). A junior high/middle school endorsement may be added to the elementary education certificate.

Accreditation. Valparaiso University is accredited by the National Council for Accreditation of Teacher Education at both undergraduate and graduate levels to prepare elementary and secondary school teachers. It is a member of the American Association of Colleges for Teacher Education. It is accredited on the undergraduate and graduate levels by the Indiana Department of Education as a teacher education institution to meet Indiana certification requirements.

Certification. For the purposes of the Teacher Education Program and supervised teaching, the regulations apply which are in force at the time the student is approved for admission to the Teacher Education Program. All students who expect to teach and have not been admitted to the Teacher Education Program should consult the Professional Development and Placement Office of this Department as early as possible to assure that certification requirements will be met. The completion of the prescribed courses outlined in the Education Department does not guarantee that the student will be recommended for certification or a teaching position.

A student who holds a bachelor's degree and is interested in qualifying for certification should consult the Certification Adviser of the Department.

For a listing of all programs offered see pages 44-45.

Major. Only students preparing to meet elementary education certification requirements may major in education. Such students should complete the requirements for the Bachelor of Science in Education degree.

All secondary education students have an 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 certification and may include courses that do not apply to the academic major.

A teacher education adviser will be assigned to every secondary education student. The student needs to secure the teacher education adviser's signature along with the major adviser's signature on each semester's registration form and on applications for admission to the teacher education program and to the professional semester.

Minor. Only students preparing to meet secondary education certification requirements or those who have been admitted to the Teacher Education Program should consult the Professional Development and Placement Office.

Elementary Education

Completion of the degree requirements of the College of Arts and Sciences 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. This does not in itself qualify a student for a teacher's certificate or license in any given state.

Course work must include the following as a minimum:

1. Language Arts: 16 credit hours. Must include nine credit hours in written and oral communication and a course in children's literature. English 478; Literature for Children.

2. Social Studies: 12 credit hours. Must include History 100: The Western World in Global Perspectives; a course in United States history; a course in world civilization and a course in Social Analysis selected from economics, geography, political science or sociology.

3. Conservation: 3 credit hours. One course: see Geography 160: Conservation of Natural Resources, or Biology 370: Human Environmental Biology.

4. Science: 8 credit hours. Must include a course in biology and one course in physical science selected from chemistry, physical geography or physics.

5. Mathematics: 9 credit hours. Must include mathematics course work specifically designed for elementary teachers, Mathematics 211/213 and 212/214.

6. Arts: 6 credit hours. Must include one course in music appreciation or methods of teaching music and one in art appreciation or art history or methods of teaching art.

7. Other electives: 8 credit hours. Must include Psychology 101 or 102, 1 credit hour of Physical Education 101-105, Special Education 340, and electives from this area to total 8 credits.

8. Freshman Seminar 100: 3 credit hours. Appropriate topics in this seminar.

9. General Education Electives: Elect from the above categories further courses to a total of 70 credit hours.

10. Theology: 9 credit hours.

11. University Course: 3 credit hours. Appropriate topics in this course may be counted toward meeting the requirements in conservation, arts or the general education electives.

12. Education: 38 credit hours. Must include 203, 204, 305 or 306 or 307, 321, 322, 323, 324, 327, 339, 402, 403, 433, 439 or SPED 449.

13. Other electives: In addition to the above requirements, the student must present sufficient electives to achieve the 124 credit hours required for graduation.

Additional Teaching Endorsements. Students completing an elementary education degree and certification requirements may also obtain additional teaching endorsements in junior high/middle school, learning disabilities, and reading, as well as other subjects. Additional coursework is necessary to satisfy requirements for these extra endorsements. 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 additional endorsements should contact the Education Department.

Freshman students are advised by a department adviser assigned by the Chair. A recommended course program follows:

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English 100 or Freshman Seminar 100</td>
<td>3</td>
</tr>
<tr>
<td>History 100 or Theology 100</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>4</td>
</tr>
<tr>
<td>Social Analysis or U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education 101-105</td>
<td>14</td>
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</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
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<td>History 100 or Theology 100</td>
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<td>Natural Science</td>
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<td>Social Analysis or U.S. History</td>
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<td>Physical Education 101-105</td>
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<td>Psychology 101</td>
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<td>Physical Education 101-105</td>
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</tbody>
</table>

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 Education 203, 204, and Communication 145, 243, or TVMA 141 during this year. Application for admission to the Teacher Education Program should be made at least by the first month of the second semester of the sophomore year.

Junior students who are admitted to the Teacher Education Program may take the Junior level courses (Education 321, 322, 323, 324, 327, 328). Please see your adviser to develop your program. Application for admission to supervised teaching (Professional Seminar) must be filed by March 1 of the junior year.

Secondary Education

Programs in visual arts, physical education, and music can be taken as all-grade (1-12); all other programs are taken for senior-junior high/middle school licensing.
The Teacher Education Program

Admission. To be admitted to the Teacher Education Program, a student must submit a written application to the Education Department. This application should be made within the first two weeks of the second semester of the student’s sophomore year. Applications are accepted only in January and September. The following table is a time line for the admission process which the department uses each semester:

**Week**

1-2 Students submit application for admission and schedule a time to take the Basic Skills Test.
3-4 Basic Skills Tests are administered.
5-6 Admissions portfolios are assembled by staff.
7-8 Admissions Committee reviews applicants.
9-10 Applicants are notified of their admission status.
11 Advising and pre-registration period begins.
12 Petitions from students to the chair are accepted.
Final Grade Point Average. Normally an applicant must have a standing 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 all course work taken in the Education Department. Post-baccalaureate students must have a standing of 2.75 in all course work (12 credit hours minimum) taken at Valparaiso University prior to earning the bachelor’s degree.
2. Basic Skills. An applicant must have obtained a grade point average of 2.25 or better in required composition courses and speech course at Valparaiso University. No course may be used to meet this requirement if the course grade is below a C-. The applicant must also pass basic skills proficiency tests. A fee may be charged for this testing. Check with the Professional Development and Placement Office about details and procedures.) Students are expected to maintain acceptable standards in communication skills; proficiency is monitored by professors in education courses. If deficiencies in written or oral communication are noted, the applicant must take remedial steps under the direction of the Department.

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

4. Character. An applicant must show the social and emotional maturity, moral character, responsibility and dependability necessary for success in the teaching profession.

5. Recommendations. Positive recommendations from two faculty members must be obtained by each applicant. One of these must be obtained from the Introduction to Teaching instructor. The other should be obtained from the major advisor. A third recommendation must also be received from a field experience cooperating teacher.

Appeals from the decisions of the Admissions and Retention Committee should first be directed to that Committee; if the decision is still unfavorable, appeal should be submitted in writing and directed to the Education Department faculty through its Chair.

Professional Semester. This semester is required of all candidates who wish to be recommended for an initial teaching certificate. This semester includes the methods, principles and student teaching course required to meet standards for certification. During this semester the student should enroll only in courses approved for the Professional Seminar.

Admission to the Professional Semester. Preliminary application for admission to the Professional Semester (including Supervised Teaching) must be filed and completed in person with the Professional Development and Placement Office by March 1 of the Spring Semester before the academic
Education

year in which the student teaching is to be done. To be eligible for supervised teaching, 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 teaching fields.
3. Continued demonstration in class of facility in oral and written communication. The applicant must have obtained a grade point average of 2.25 or better in courses used to meet this requirement.
4. Completion of at least 12 credit hours at Valparaiso University of which 3 credit hours must be in education.
5. Senior standing. The applicant must be within two semesters and one summer of graduation.
6. Evidence of the social and emotional maturity, moral character, responsibility and dependability necessary for success in the teaching profession.
7. Secondary student teaching candidates must have completed Education 203, 204, 305, 460, 475; Special Education 340, 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 recommendation 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.
8. Elementary 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: Education 204, 321, 322, 323, 324, 327, 328 and Special Education 340.
9. Obtain a "C" or better in each of the professional education courses taken in the professional semester prior to supervised teaching to be eligible to begin supervised teaching.
10. To be eligible for recommendation for certification, students must maintain the above requirements through the completion of the degree and the teacher education program.

Placement of Student Teachers. The placement and the direction of supervised teaching experiences are the responsibilities of the Professional Development and Placement Office. Approved elementary and secondary student teachers are assigned to selected schools in Northwest Indiana. Students are responsible for arranging for their own transportation.

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

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

203.Introduction to Teaching.
Cr. 2. For teacher education students or those who wish to explore teaching as a career. An introduction to the teaching profession, the roles of teachers, and the standards that govern education in a multicultural society. One half of the course will be a 40 hour field experience in an elementary or secondary school.

204.Educational Psychology.
Cr. 3. A study of psychological research and theory related to child development and the learning process. Prerequisite: Psychology 101 or 102.

Note: No undergraduate student is admitted to any course beyond Education 203, 204, or Special Education 340 or 343 unless admitted to the Teacher Education Program or permitted to do so by the Chair of the Education Department.

308.Computers in Education I.
Cr. 1. An introductory course designed to prepare teachers to use computers in the classroom. Students will learn computer terminology and operations, critically evaluate tutorial software appropriate for use in schools (K-12), and gain skill in using wordprocessing as a tool for personal and professional use.

306.Computers in Education II.
Cr. 1. An intermediate course designed to prepare teachers to use computers in the classroom. Students will select appropriate software for use in specific content areas, gain skills in using Data Base and/or spreadsheet as a tool for personal and professional use, and experienced LOGO as structured programming language.

307.Computers in Education III.
Cr. 1. An advanced course designed to prepare teachers to use computers in the classroom. Students will select and/or develop appropriate software for use in specific content areas. An individualized format will be used. Topics include desktop publishing, advanced LOGO, CD-ROM, Telecommunications, hyper-card, and new computer technologies as they are developed.

321.Principles of Elementary Education.
Cr. 3. This course is designed to (1) study the organization of instruction, classroom assignment, measurement and evaluation and the legal rights and responsibilities of the teacher, (2) consider the elementary classroom from varied perspectives and (3) re-examine the purposes of education, schooling, instruction and the role of the professional teacher. Includes a field component.

322.Methods of Teaching Language Arts in the Elementary School.
Cr. 3. A study of the principles, content, curriculum, methods and techniques involved in teaching the language arts in the elementary school. Includes a field component.

323.Methods of Science Education.
Cr. 2. This course will (1) explore the basic orientations that will have meaning and value in our world, (2) study the philosophy of science education with an understanding of three methods used for science instruction: Discovery Model, Inquiry Model, and Experimental Model. Includes a field component.

Cr. 2. A study of techniques and instructional materials for teaching mathematics in the elementary school. Topics include sequencing, diagnostic and remediation strategies, and appropriate use of concrete materials in planning, organizing, implementing and evaluating instructional practice. Includes a field component.

Cr. 2. This course is designed to (1) study the historical development and present trends in the subject area of social studies, (2) explore the roles of social studies in school curriculum, (3) examine current methods and materials unique to social studies, and (4) plan and implement a social studies unit. Includes a field component.

328.Developmental Reading for Elementary Teachers.
Cr. 3. A detailed study of basic and developmental reading programs and methods. Students learn reading, cultural and linguistic differences and their effect on reading ability. A study of materials and procedures used in contemporary schools is an integral part of class work. A field experience is included.

361/362.Foundations of Language and Reading.
Cr. 3. This course of lectures includes the interrelationship between thought and language processes, the basic elements of the reading process, diagnostic tools in reading assessment and sociocultural implications of the reading process.

403.Foundations of Education.
Cr. 2. A study of the historical, sociological, legal, and philosophical foundations of American education, with emphasis on the multicultural aspects inherent in each area. Current issues and trends in education. Seminar format.

433.Diagnostic and Corrective Reading for Elementary Teachers.
Cr. 3. Examination of the psychology of reading difficulties. Its relationship to the planning of reading programs to meet individual needs. Special emphasis is placed on reading in the content areas. This course is taken during the student teaching semester and includes a field component.

Cr. 12. This course gives the student opportunities for observation, actual classroom teaching and participation in related activities in elementary schools under the direction of the supervising teacher and the University field instructor. Students are expected to give full time to this course for a minimum of two weeks of the semester. 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. SU grade.

Cr. 5. A study of the understandings, knowledge, and skills necessary for effective secondary and middle school teaching. Topics addressed are curriculum development, instructional planning, classroom management, the student-teacher interaction, methods and strategies of instruction, evaluations, and issues of multiculturalism and equality. Students reflect on their own teaching and learning experiences and perceptions of current practices as they begin to formulate their own teaching philosophies. Restricted to students enrolled in the Secondary Education Professional Semester.

Cr. 10. Each student is assigned to a middle or secondary school for laboratory experiences, which includes a minimum of ten weeks of full-time classroom observation, 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 19 credit hours. SU grade.
Education

468/S60. Reading in the Content Areas.
Cr. 3. This course offers students 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 tools and processes, methods for planning instruction, and a range of reading, writing, and study strategies appropriate for helping pupils read to learn.

462/S62. Reading Disabilities.
Cr. 3. Lectures and demonstrations on the general nature of identification, diagnosis and classification of individuals with reading problems at all ages and levels of instruction. Prerequisite: six credit hours of course work in reading.

463/S63. Practicum in Corrective Reading.
Cr. 3. A laboratory experience which provides practice with primary, elementary, middle and junior high school children whose reading disabilities are mild to moderate. Training in evaluating reading performance, planning appropriate programs and implementing instructional strategies. Prerequisite: Education 462 or equivalent.

470/S70. Introduction to Educational Media.
2+3. Cr. 3. An introduction into the ways of effective selection and utilization of media, both material and equipment. The course includes laboratory experience in the production of materials and equipment operation in different media.

471/S71. Kindergarten Education.
Cr. 3. This course deals with the curriculum, teaching techniques and materials used in the nursery school and kindergarten. Special emphasis is given to the education needs of the pre-school child.

Cr. 3. A course dealing with theory of measurement, interpretation of measurement data and testing in relation to pupil achievement and guidance.

475/S75. The Junior High/Middle School.
2+3. Cr. 3. A study of the development, organization and curriculum of junior high and middle schools with emphasis on the unique societal and educational roles played by these institutions, and the programs and methods appropriate for students at this level. Field experiences include a minimum of forty hours of practical involvement in activities in the schools.

477/S77. Practicum in Junior High/Middle School.
Cr. 3. Each student is assigned a minimum of 80 hours of supervised field experiences in a junior high or middle school. The experience includes working with students individually and in small and large groups. Must be taken concurrently with Education 475/575.

489. Special Methods in the Academic Courses in Secondary Education.
Cr. 2. This course is administered by the Education Department. It is given in the various departments of the College of Arts and Sciences under the following titles:
- The Teaching of English
- The Teaching of Foreign Languages
- The Teaching of Mathematics
- The Teaching of Music
- The Teaching of Natural Sciences
- The Teaching of Physical Education
- The Teaching of Social Studies
- The Teaching of Visual Arts

490/S90. Current Problems in Education.
Cr. 1-3. An intensive study of an area of education. Subtitles, amount of credit and content depend on instructor's choice and student interest.

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

497. Honors Work in Education.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Education.
Cr. 3. See Honors Work, page 47.

SPECIAL EDUCATION

Cr. 3. A course designed to introduce P.L. 101-476, P.L. 99-456, and P.L. 94-142; the special needs of exceptional students; the practice of educating them in multicultural settings in the least restrictive environment.

342/542. Special Education Methods and Materials.
Cr. 3. This course focuses upon methods and materials for effective instruction of readiness and developmental processes, and skills in language arts, mathematics, social and natural sciences, and vocational education for exceptional students at all grade levels. Offered in alternate years.

343. Individuals with Learning Disabilities.
Cr. An examination of the effects of learning disabilities on academic achievement, behavior, social interaction, vocational development and adult living. The course will emphasize current understanding of individuals with learning disabilities as well as historical views and instructional and self-management techniques. Does not require admission to Teacher Education.

346. Practicum in Learning Disabilities.
Cr. 3. This course is designed to provide a minimum of 80 hours of field experience to prospective special education (learning disabilities) teachers to inform them about teaching in this area of exceptionality. This practicum emphasizes directed observation of diagnostic, teaching and management techniques. Prerequisite: admission to teacher education. SU grade.

444. Assessment in Special Education.
Cr. 3. This course will develop test administration and interpretation competencies in identification and diagnosis of exceptionalities. Psychometric research, acuity screening, individualized diagnostic and achievement tests, learning capacity and aptitude instruments will be analyzed in case study E.P. contexts. Prerequisite: Education 343/543 or concurrent enrollment.

445. Teaching the Mildly Disabled Student.
Cr. 3. This course will provide various compensatory, enrichment, and corrective instructional strategies; further develop diagnostic-prescriptive teaching methods, and improve individual educational planning techniques for mildly disabled students in multidisciplinary team settings. Required curriculum project. Prerequisite: Special Education 343, 444 or concurrent enrollment.

449. Supervised Teaching in General and Special Education.
Cr. 10-12. This course combines into one semester the experience of observation, classroom teaching, and participation in related activities in elementary or secondary school settings, and special education (learning disabilities) settings. Under the direction of the cooperating teachers and University field instructor, the student-teacher has both general and special education teaching experiences. Prerequisites: senior standing, SPED 445, and admission to the professional semester. SU grade.

490/S90. 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.

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. G. Eifrig, Fauster, Gilbertson, Janea, Maxwell, A.G. Meyer, Spenceberg (Chair), Uhling, Wangen; Associate Professors Byrne, Hall, Mullen, Sandock; Assistant Professors Bhattacharya, K. Evans, Ruff.

The English Department offers a wide variety of courses for both English majors and other students. These courses help students use the English language effectively and sensibly and help them develop their capacities to enjoy and understand imaginative literature. Many non-English majors enroll in upper division courses and, as a consequence, students can expect any given class to display a broad spectrum of interests and backgrounds. Relatively small class sizes allow students to develop a close relationship with professors and allow them to develop their analytical and expressive skills through writing and discussion. In addition to preparing a student for graduate work or for teaching in the secondary schools, an English major also provides excellent training for numerous careers and professions: Many schools of medicine, law, and theology report that an English major provides a highly desirable background for acceptance into their programs. Business and government annually employ English majors for positions in human resources, sales and marketing, public relations, systems analysis and advertising, and public relations. The ability to read and understand complex material, to write and speak precisely, to think clearly and thoroughly remains in high demand in all sections of our society.

Students with an interest in English are invited to join the English Club. Major. A major requires a minimum of 27 credit hours in English courses beyond the General Education Requirements and numbered 321 or above. Courses must include either English 408 or 493; four courses selected from English 410, 491, 420, 430, 450, or 456; one from English 460, 470, 475; and either 401 or 402. Minor. A minor requires a minimum of 15 credit hours in English courses numbered 321 or above. Courses must

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 either English 257 or 258, 431, 441 or 442, or 443; two of the following: 321, 408, 423, 424, 456, Theatre and Television Arts 252. Students who elect to take both 321 and 431 must take two courses. In some instances students may apply internships and cooperative education toward fulfillment of requirements for the minor in writing.

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 taking a major or a minor in English should make an appointment with the Chair of the Department. Students should bring their cumulative grade report (copies from the registrar's office) and their current adviser's file. The Chair will explain the offerings and programs available to students in the Department and advise each student in the Department. The Chair will advise students about courses and fulfill thelp of requirements for the minor in writing. All courses beyond the General Education Requirements and numbered 321 or above. Courses must

100. Exposition and Argument. Cr. 3. An intensive course in the writing of exposition and argument courses. Prerequisite: English 100 or 101.

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

200. Literary Studies. Cr. 4. Core readings are chosen from the literature of the major periods of literary history. Emphasis is placed on the development of critical methodology and the interpretation of literary texts. Prerequisite: English 191 or 192.

231. Film Aesthetics. Cr. 3. This course is concerned with the aesthetic and ideological issues raised by film. Prerequisite: English 101 or 102.

257. Business Communication. Cr. 3. A detailed study of business communication. Includes analysis and practice in a variety of messages used in business and industry: letters, oral reports and informal reports. Emphasizes the fundamentals of management, writing style, language, tone, and psychology of effective business communication.

258. Technical Communication. Cr. 3. This course deals with the design of written materials, such as contracts, reports, and proposals, for a technical audience. Prerequisite: English 101 or 102.

265. Studies in Literature and the Other Arts. Cr. 3. Courses offered under various titles will examine the relationships between literature and the fine arts. Topics might include the study of a particular writer or concept as it is treated in the various arts or the analysis of parallel technical developments in the arts during a specific historical period. Fulfils the Fine Arts or Fine Arts-Literature requirement.

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 English 431.

365/665 (formerly 465/665). Studies in American Literature.* 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.

390/690 (formerly 490/690). Topics in Literature.* Cr. 2 (seven week course) -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).

Note: English 191 (or 192) and 200 are prerequisites for all literature and language courses numbered 301 or above; English 101 or 102 is the prerequisite for other writing courses (257, 258, 321, 423, 424, 431).

#Credit for English 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. Students with SAT Verbal scores of 600 or above or the equivalent ACT score may receive credit for English 100 upon submission of a writing sample judged acceptable by the Department.

#Credit for English 200 may be earned through the College Level Examination Program subject examination in Advanced Placement Literature or through the Advanced Placement examination offered by the College Entrance Examination Board.

All 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.
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.

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.

405. Masterpieces of World Literature.
Cr. 3. A study of major works of the Occident and Orient from ancient times to the present day.

408/508. Methods of Literary Criticism 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.

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

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.

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.

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.

430/530. Literature of the Restoration and Eighteenth Century.
Cr. 3. An intensive survey of English poetry, fiction, non-fiction 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.

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.

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.

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

443/543. Introduction to Linguistics.
Cr. 3. A general 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.

450/550. 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.

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

460/560. Modern Drama.
Cr. 3. A study of plays typical of the various phases of the development of British and American drama after 1870, with some attention to related Continental drama.

470/570. Modern 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.

475/575. Modern 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.

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.

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.

481. Cooperative Education in English I.
Cr. 0.5-3. Professional work experience which clearly augments the student's classroom education. Written report required. Prerequisites: English 431 and approval of the Chair of the Department.

482-483. Cooperative Education in English II-III.
Cr. 0.5-3. Continuation of English 481. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in English.

492/582. Seminar in Writing.
Cr. 3. Students consider various forms of creative writing (drama, fiction, non-fiction, poetry), but focus their work in a single genre. Requirements include a series of progress papers and a substantial portfolio of creative work. Prerequisite: English 423 or 424 or 431 or approval of the department chair.

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 free discussion rather than lectures. Some recent topics:

- Robert Frost
- Wordsworth and Hardy

Enrollment limited to 15 students. Required for English majors.

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 the student plans to undertake his project, he must arrange for a tutor to direct that project and secure approval for it from the English Department Committee on Honors and Independent Study.

497. Honors Work in English Literature.
Cr. 3. See Honors Work page 47.

498. Honors Candidacy in English Literature.
Cr. 3. See Honors Work page 47.
Film Studies

Administrative Committee:
Professor Maxwell (English, Chair);
Professors Falkenstein (Foreign Languages), Juneja (English), Schoppa (History), Sponberg (English), and Trost (Political Science); Associate Professor Byrne (English).

A minor in film studies may be presented in partial fulfillment of the major field requirements for the Bachelor of Arts degree under a Major Option.

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:

English 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: English 390, French 250, German 250, Greek 250, Latin 250, Spanish 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: History 393, Political Science 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: German 260, History 390, Christ College 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.

Foreign Languages and Literatures

Objectives. The minor in Foreign Languages and Literatures may be presented in partial fulfillment of the major field requirements for the Bachelor of Arts degree under a Major Option.

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:

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Film and Society Area. Offered by the Department of History and the Department of Political Science: History 393, Political Science 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: German 260, History 390, Christ College 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.

Foreign Languages and Literatures

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:

English 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: English 390, French 250, German 250, Greek 250, Latin 250, Spanish 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: History 393, Political Science 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: German 260, History 390, Christ College 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.
Chinese


Study Abroad Opportunities: Hangzhou Program available fall semester only. See page 19 for details. Students considering study abroad should consult with the Department Chair and their academic advisor as early as possible.

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.

102. Beginning Chinese II.
Cr. 4. Continuation of Chinese 101. Prerequisite: Chinese 101 or equivalent. May not be taken by students who have taken language study courses in China.

203. Intermediate Chinese I.
Cr. 4. Development of Chinese 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: Chinese 102 or permission of the instructor.

204. Intermediate Chinese II.
Cr. 4. Continuation of Chinese 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: Chinese 203 or permission of the instructor.

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 311 and one of the following language concentrations:

1. Greek (24 credits); or
2. Latin (16 credits beyond FLL 103); or
3. Classical Languages (16 credits of Greek and 8 credits of Latin beyond FLL 103).

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 in normal 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:

See Classics for description of Classical Civilization concentration in Classics major and minor.

Cr. 3. A study of Greek and Roman literature in translation and art. May by repeated for credit provided there is no duplication of material. No knowledge of Greek or Latin required.

For full details of Classical Civilization, see page 18.

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.

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.

311. Greek and Roman Civilization.
Cr. 3. Also offered as HIST 311. A study of the Greek and Roman political, social, and intellectual development from the Mycenean period to 325 A.D. No knowledge of Greek or Latin required. Prerequisites: 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.

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 Aesoplyllus, Sophocles, Euripides, Aristophanes, Plautus, and Terence. Discussion of historical context, poetic technique, and the values and concerns that the work reflect. May be repeated for credit provided there is no duplication of material. No knowledge of Greek or Latin required.

Prerequisites: CLC 311 or instructor's approval.
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 CLC 311, and approval of Department Chair. S/U grade.

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. S/U grade. May be repeated beyond 483 for additional credit.

489. 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.

497. Honors Work in Classical Civilization.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Classical Civilization.
Cr. 3. See Honors Work, page 47.

French

Major. A minimum of 27 credit hours in French beyond French 103 constitutes a major. Courses must include French 204, 221, 222, 231, 232, and 483.

Minor. A minimum of 14 credit hours beyond French 103 constitutes a minor. Courses must include French 204 and one course in either French civilization or literature.

Teaching Programs. Students who plan to teach French in secondary schools with a major or minor in French should consult the Chair of the Department and the Education Department for specific requirements.

The Roger and Hazel Guillaumant Award. See page 27 for details.

Study Abroad Opportunities:
- Sorbonne Paris Program (available full year or spring semester)
- Paris Internship Program (available fall or spring semester)
See page 21 for details; students considering study abroad should consult with the Department Chair and their academic adviser as early as possible.

101. First Semester French.
Cr. 4. A course designed to give the student the essentials of French. Credit may not be counted for graduation by a student who has completed a second year French course in high school.

102. Second Semester French.
Cr. 4. A continuation of French 101. Prerequisite: French 101 or equivalent.

103. Intermediate French.
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: French 102 or equivalent.

204. French Composition and Conversation I.
Cr. 4. Practice in speaking, understanding, reading and writing everyday French. Use of practical vocabulary and common idioms. Prerequisite: French 103 or equivalent. May be repeated for credit at the Paris Centers or similarly accredited programs.

205. French Composition and Conversation II.
Cr. 4. A continuation of French 204 with work of increased difficulty. Prerequisite: French 204. May be repeated for credit at the Paris Centers or similarly accredited programs.

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: French 204.

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: French 204.

231. French Civilization to 1870.
Cr. 3. A historical survey of the French cultural heritage in the fields of history, sociology and the fine arts to the beginning of the Third Republic. Prerequisite: French 204.

232. French Civilization from 1870 to the Present.
Cr. 3. A study of the Franco-Prussian War, the two world wars, decolonization and participation in the European Community and their impact on the police, social development, economy and thought of France today. Prerequisite: French 204.

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: French 103 or equivalent.

280. 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 and films are used as a basis to build more advanced language skills and to familiarize the student with modern-day France. Prerequisite: French 204.

307. Professional French.
Cr. 2-3. A study of the French language as it is used in the international business world, including writing of business letters and general commercial terminology. Prerequisite: French 204.

481. Cooperative Education in French I.
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond French 103 and approval of the Chair of the Department. S/U grade.

482-483. Cooperative Education in French II-III.
Cr. 0.5-3. Continuation of French 481. Prerequisites: French 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

489. Supervised Reading and Research in French.
Cr. 3. See Education 489. A study of the methods of teaching foreign languages in secondary schools. May not be counted toward a major or minor in the Department of Foreign Languages and Literatures. Prerequisite: admission to Supervised Teaching. Given upon sufficient demand.

490. Seminar in French Literature or Civilization.
Cr. 3. A study of selected topics in literature or civilization. May be repeated provided there is no duplication of material. Prerequisites: French 221 and 222 or French 231 and 232 respectively.

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.

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.

497. Honors Work in French.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in French.
Cr. 3. See Honors Work, page 47.

German

Major. A minimum of 27 credit hours in German beyond German 102 constitutes a major. Courses must include German 204, 221, 222, 231, 232, and 493.

Minor. A minimum of 14 credit hours beyond German 103 constitutes a minor. Courses must include German 204 and one course in either German civilization or literature.

Teaching Programs. Students who plan to teach German in secondary schools with a major or minor in German should consult the Chair of the Department and the Education Department for specific requirements.

Study Abroad Opportunities:
- Reutlingen Program (available full year or spring semester)
- Tübingen Program (available full year only)
See page 22 for details; students considering study abroad should consult with the Department Chair and their academic advisor as early as possible.

The Walther M. Miller Memorial Prize. See page 28 for details.

Reutlingen Semester Scholarship. See page 225 for details.

101. First Semester German.
Cr. 4. A course designed to give the student the essentials of German. Credit may not be counted for graduation by a student who has completed a second year German course in high school.

102. Second Semester German.
Cr. 4. A continuation of German 101. Prerequisite: German 101 or equivalent.

103. Intermediate German.
Cr. 4. Reading, writing and discussion in German on the intermediate level; review of German grammar. Upon demand a special reading section will be offered. Prerequisite: German 102 or equivalent.

204. German Composition and Conversation I.
Cr. 4. Practice in speaking (general conversation beyond survival needs), understanding (standard German spoken at a normal rate), reading (non-specialized texts), and writing (paragraphs). Prerequisite: German 103 or equivalent. May be repeated for credit at Reutlingen Center.

205. German Composition and Conversation II.
Cr. 4. A continuation of German 204, with work of increased difficulty. Prerequisite: German 204.
Foreign Languages and Literatures

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: German 204.

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: German 204.

231. German Civilization to 1800. 
Cr. 3. A historical and interdisciplinary survey of German culture to the end of the 18th century. Prerequisite: German 204.

232. German Civilization since 1800. 
Cr. 3. A historical and interdisciplinary survey of German culture in the 19th and 20th centuries. Prerequisite: German 204.

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.

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 requirement.

306. Contemporary German Language in the Mass Media. 
Cr. 4. The contemporary German language as used in radio broadcasts, newspapers, magazines, and other sources from German-speaking countries. Prerequisite: German 204.

307. Professional German. 
Cr. 3. A study of the German language primarily for participants in the Program in International Economics and Cultural Affairs. The course is adjusted to the career needs of the individual class. Prerequisite: German 204.

341. History of the German Language. 
Cr. 3. A historical study of the development of the German language. Prerequisite: German 204.

481. Cooperative Education in German I-II. 
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond German 103 and approval of the Chair of the Department. S/U grade.

482. Cooperative Education in German III-IV. 
Cr. 0.5-3. Continuation of German 481. Prerequisites: German 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

489. The Teaching of Foreign Languages. 
Cr. 2. (See French 489 and Education 489.) Prerequisite: admission to Supervised Teaching.

490. Seminar in German Literature or Civilization. 
Cr. 4. A study of selected topics in literature or civilization. May be repeated provided there is no duplication of material. Prerequisite: German 221 and 222 or German 231 and 232 respectively, or instructor's permission.

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.

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.

496. Honors Work in German. 
Cr. 3. See Honors Work, page 47.

497. Honors Candidacy in German. 
Cr. 3. See Honors Work, page 47.

Greek

See Classics for description of Greek concentration in Classics major and minor.

101. First Semester Greek. 
Cr. 4. A course designed to give the student the essentials needed to read Classical and Koine Greek and to provide a brief introduction to Greek literature and culture.

102. Second Semester Greek. 
Cr. 4. A continuation of Greek 101 with readings from Classical and/or New Testament authors. Prerequisite: Greek 101 or equivalent.

203. Intermediate Greek. 
Cr. 4. Reading and analysis of selections from Xenophon's Anabasis and from St. John's gospel with a review of grammatical forms and syntax; parallel study of pertinent aspects of Greek civilization. Prerequisite: Greek 102 or equivalent.

204. Advanced Intermediate Greek. 
Cr. 4. Reading and analysis of selections from Xenophon's Anabasis and from St. John's gospel with a review of grammatical forms and syntax; parallel study of pertinent aspects of Greek civilization. Prerequisite: Greek 102 or equivalent.

220. Selected Readings in Hebraic Literature. 
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: Greek 203 or equivalent.

410. Greek 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: Greek 203 or equivalent.

411. Greek 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: Greek 203 or equivalent.

495. Supervised Reading and Research in Greek. 
Cr. 1-4. Intended for students capable of doing independent study in Greek language and literature. Research paper required. Prerequisite: consent of the Chair of the Department.

496. Honors Work in Greek. 
Cr. 3. See Honors Work, page 47.

497. Honors Candidacy in Greek. 
Cr. 3. See Honors Work, page 47.

Hebrew

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

101. First Semester Hebrew. 
Cr. 4. Elements of Hebrew grammar stressing oral and reading ability. Credit may not be counted for graduation by a student who has taken two years of high school Hebrew.

102. Second Semester Hebrew. 
Cr. 4. A continuation of Hebrew 101, with reading of simpler prose sections of the Old Testament. Prerequisite: Hebrew 101 or equivalent.

Cr. 4. Selected reading of Old Testament prose and poetry, with attention to increased vocabulary and linguistic structure. Prerequisite: Hebrew 102 or equivalent.

220. Selected Readings in Hebraic Literature. 
Cr. 2-4. Readings for advanced students from the Old Testament and rabbinic literature. Prerequisite: Hebrew 203 or consent of the Chair of the Department.

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.

305. Advanced Hebrew I. 
Cr. 4. Continuation of Hebrew 204. Introduction of extended prose readings. Simple conversation and composition in everyday Hebrew. Prerequisite: Hebrew 204 or equivalent.

306. Advanced Hebrew II. 
Cr. 4. Continuation of Hebrew 305. Emphasis on syntax of prose text; review of grammar. Conversation in everyday Hebrew. Composition in the expository style. Prerequisite: Hebrew 305 or equivalent.

481. Cooperative Education in Hebrew. 
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond Hebrew 203 and approval of the Chair of the Department. S/U grade.
Foreign Languages and Literatures

482-483. Cooperative Education in Japanese II-III
Cr. 0.5-3. Continuation of Japanese 481. Prerequisites: Japanese 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

495. Supervised Reading and Research in Japanese
Cr. 1-4. Intended for students capable of doing independent study in Japanese language, civilization, and literature. Research paper required. Prerequisite: consent of the Chair of the Department.

497. Honors Work in Latin
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Latin
Cr. 3. See Honors Work, page 47.

Spanish

Majors
A minimum of 27 credit hours beyond Spanish 103 constitutes a major. Courses must include Spanish 204, 220, 230 or 231, 302 or 322, and 493.

Minors
A minimum of 14 credit hours above Spanish 103 constitutes a minor. Courses must include Spanish 204 and one course in either civilization or literature.

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.

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. Credit may not be counted for graduation by a student who has completed a second-year Latin course in high school.

102. Second Semester Latin
Cr. 4. A continuation of Latin 101, followed by easy selections from Latin prose. Prerequisite: Latin 101 or equivalent.

103. Intermediate Latin
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: Latin 102 or equivalent.

204. Vergil
Cr. 4. Readings from the works of Vergil and an introduction to Vergilian scholarship. Prerequisite: Latin 103 or equivalent.

340 (formerly 326). Medieval Latin
Cr. 4. Readings in the Vulgate and in Medieval prose and poetry. Prerequisite: Latin 103 or equivalent.

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: Latin 103 or equivalent.

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: Latin 103 or equivalent.

489. The Teaching of Foreign Languages
Cr. 2. (See French 489 and Education 489.) Prerequisite: admission to Supervised Teaching.

496. 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.

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: Spanish 204.

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: Spanish 204.

321. 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: Spanish 204.

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 Non-Western Third World component of the General Education Requirements.

306. Contemporary Hispanic Society through Communications
Cr. 4. Utilization of newspapers, magazines, radio, television and essay as a basis for conversation, composition and grammar study. Prerequisite: Spanish 204.

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: Spanish 204.

321. Spanish Literature
Cr. 3. A study of representative works of the literature of Spain from the Middle Ages to the present. Prerequisite: Spanish 220.

322. Spanish American Literature
Cr. 3. A study of representative works of the literature of Spanish America from the Encounter to the present. Prerequisite: Spanish 220.

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: Spanish 204.

481. Cooperative Education in Spanish I
Cr. 0.5-3. Work experience with a cooperating employer. Written report required. Prerequisites: 12 credits beyond Spanish 103 and/or approval of the Chair of the Department. S/U grade.

482-483. Cooperative Education in Spanish II-III
Cr. 0.5-3. Continuation of Spanish 481. Prerequisites: Spanish 481 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

489. The Teaching of Foreign Languages
Cr. 2. (See French 489 and Education 489.) Prerequisite: admission to Supervised Teaching.

490. Seminar in Hispanic Literature or Civilization
Cr. 3. The examination of selected themes, movements or authors in Spanish and/or Spanish-American literature or civilization. This course may be repeated provided there is no duplication of material. Prerequisite: Spanish 220.

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: Spanish 220, senior standing and consent of the Chair of the Department.

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.

497. Honors Work in Spanish
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Spanish
Cr. 3. See Honors Work, page 47.
Geography and Meteorology

Professor Janke, (Chair); Assistant Professors Kilipinen, Prell, Wolf; Instructor Stevens.

Geography

Geography is a diverse subject which 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, and transportation planning, teaching of geography.

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 Geographical Survey in Northwest Indiana. Annually, thousands of national, regional and topographic maps of all continents are received.

Major. A minimum of 30 credit hours constitutes a major in meteorology for the Bachelor of Science degree. For this meteorology program, students are required to take 103, 215, 216, 379, 382, 383, 480, 481, and 490. The meteorology major must also take Physics 141 and 142 and either Mathematics 131 and 132 or Mathematics 151 and 152.

Geology

The Valparaiso University-Indiana University Northwest Geography and Geology Association (VIGGA) Major in Geology. The purpose of this association is to provide educational opportunities at the undergraduate level in the geological and geographical sciences to the students enrolled at Valparaiso University and Indiana University Northwest, Gary. Since the school year of 1970-1971, full-time undergraduate students in these academic disciplines have been permitted to enroll in Association courses under the following conditions:

1. Students may take a maximum of two courses per semester at the other participating institution.
2. These courses are treated as part of the student’s normal load at the home institution and tuition and fees are levied accordingly.
3. The total number of credit hours to be taken determined by the student’s home institution. Students who wish to take courses at the host institution should obtain the recommendation of the Chair of the Geography Department (I.U.).
4. Grades earned shall be recorded at the student’s home institution.
5. A C or 2.00 average must be achieved in VIGGA courses to qualify the student to register for courses at the host institution in the following semester.

Association students at Valparaiso University are expected to complete satisfactorily the following curriculum from course offering at Indiana University and Association offerings at Indiana University Northwest in order to complete the major in geography. Degrees are awarded by the home institution.

Meteorology 103 Meteorology (I-U) 4 Cr.
Geography 104 Geomorphology (I-U) 4 Cr.
G-221 Evolution of the Earth (I-U) 3 Cr.
G-222 Introduction to Mineralogy (I-U) 4 Cr.
G-223 Introduction to Petrology (I-U) 3 Cr.
G-323 Structural Geology (I-U) 3 Cr.
G-334 Principles of Sedimentation and Stratigraphy (I-U) 3 Cr.
G-406 Introduction to Geochemistry (I-U) 3 Cr.
G-411 Principles of Invertebrate Paleontology (I-U) 3 Cr.
G-429 Regional Geology Field Trip (I-U) 1-3 Cr.
G-490 Undergraduate Seminar (I-U) 1-2 Cr.

Additional Indiana University course offerings open to Valparaiso University students majoring in geography are G-350, G-410 and G-413. See the IU 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 Geology or 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

Cr. 3. A regional analysis of the industrialized lands of the world, particularly the United States, Canada, Europe, Russia, Japan, Australia, and New Zealand. Emphasizes how human institutions and behavior, interacting with the physical environment, shape the organization of space. This course may be used to fulfill a part of the Social Analysis component of the General Education Requirement.

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 Non-Western or Third World component of the General Education Requirements.

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 reshaping landforms. Field trips. This course may be used to fulfill four credit hours of the Non-Western or Third World component of the General Education Requirements.

160. Conservation of Natural Resources. Cr. 3. A study of American and International resource problems and environmental issues; the institutions and attitudes involved and solutions for our natural resources. This course may be used to fulfill four credit hours of the General Education Requirements.

2+2, Cr. 3. An introduction to aerial photography and data from remote sensors including their use for land use planning. Prerequisite: Geography 204 or consent of the instructor. May be of interest to students in biology, political science and civil engineering. Additional fees may be charged to cover expenses. Prerequisite: Junior or senior standing.

Notes: In each of the courses 310-315 below, a geographic interpretation of the physical, social, political, industrial and commercial processes and patterns of a particular region is given. Prerequisite for each of these is junior standing or consent of the Chair of the Department.

310. Regional Geography of the United States and Canada.

Cr. 3.

311. Regional Geography of Latin America.

Cr. 3. May be used to fulfill the Non-Western or Third World component of the General Education Requirements.

312. Regional Geography of Europe.

Cr. 3. Recommended for students planning to participate in the Cambridge, Paris or Reutlingen Overseas Study Program.

313. Regional Geography of Africa.

Cr. 3. May be used to fulfill the Non-Western or Third World component of the General Education Requirements.

314. Regional Geography of Asia.

Cr. 3. May be used to fulfill the Non-Western or Third World component of the General Education Requirements.

315. Field Study in European Geography.

Cr. 3. Overseas Study Program only.

320. Urban Geography.

Cr. 3. A course treating urban settlements as distinct 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.

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.

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.

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.

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 summer, but arrangements must be made and consent of instructor may be charged to cover expenses. Prerequisite: Consent of the Department Chair.

466/566. History of Geography.

Cr. 3. Readings, papers and discussion on the development of geography thought especially in the nineteenth and twentieth centuries; on basic concepts of the field; on the place of geography within thought and value systems, and on the contribution of major geographers in past and present, to the discipline and to the intellectual world at large. Prerequisite: junior or senior standing.

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.

486. Internship in Geography.

Cr. 1-6. Students gain experience by work in public or private agencies, such as planning firms, national parks and map companies. Prerequisites: junior or senior geography major and application for an internship in writing to the Chair of the Department.

490/590. Selected Topics in Geography.

Cr. 2-3. Advanced studies in geography. Such topics as landform analysis, human environmental impact, biogeography, geographic information systems, and international ethnic conflicts are considered. May be repeated when the topic is different. Prerequisite: Junior or senior standing.

495. Independent Study.

Cr. 2-3. 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.

497. Honors Work in Geography.

Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Geography.

Cr. 3. See Honors Work, page 47.

METEOROLOGY

103. Meteorology.

2+4, Cr. 4. An introductory course designed to give the student a broad view of the principles of earth and atmospheric science, emphasizing meterological principles. General topics dealt with social environmental issues such as carbon dioxide and climate change, ozone layer and acid precipitation. This course may be used to fulfill four credit hours of the Natural Science component of the General Education Requirements.

218. Climatology.

Cr. 3. A study of the scope and controls of climate and an investigation at the global, regional and local scales. Included are climate classification, climate models and climate change. Prerequisite: Sophomore standing or above.

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 surface and aerial techniques; satellite interpretation, wind profiler systems, ASCOS, and MetDAS. Prerequisite: Meteorology 103 or consent of instructor.


Cr. 3. Introduction to the atmospheric system, including basic characteristics and variables; basic radiation thermodynamics; vertical temperature structure; stability concepts and evaluation; physics of clouds and precipitation processes. Prerequisites: Mathematics 131 or 151 and Meteorology 103.

382/582. 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 is on the applications of the basic equations of motion, atmospheric thermodynamics, gradient and geostrophic flow, and the general circulation. Prerequisites: Mathematics 131 or 151 and Meteorology 103.

383/583. Atmospheric Dynamics II.

3+2, Cr. 4. Second semester dynamics course emphasizing quasi-geostrophic dynamics; wave motions, barotropic and baroclinic instabilities; cyclones, fronts and frontogenesis, various development theories; oradcliffe climatologies, jet streaks, and secondary thermal circulations. Laboratory case studies and research. Prerequisite: Meteorology 382.

385/585. Field Study in Meteorology.

0-4, Cr. 2-3. A course emphasizing methods and techniques of meteorological field work.
History

Professors Austensen, Berg, Engeldar, Krodal, Schoppa (Chair), Statt; Associate Professor Kohlhoff, Rubchak; Assistant Professor Schaefel.

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 is present-minded, convinced that illumination of the past is of fundamental importance in today’s decision-making and for 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 time to explore a variety of subjects.

Major. A minimum of 30 credit hours in history constitutes a major. Courses must include History 100, 200, 210, and 400. 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 History 100, 200 and 210. The remaining nine 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. Pre-law 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.

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 major is assigned to a member of the Department for advising.

100. The Western World in Global Perspectives.
Cr. 3. A study of the hallmarks of the Western tradition through an examination of three historical cultures, focusing on their views of humanity, nature, religion, society, and the state. Special emphasis is placed on understanding these cultures in their global contexts and on analyzing non-Western cultures as a mirror to the Western tradition. Required of all freshmen as part of the General Education Requirements.

Note: The survey courses, 200 through 241, may be used to fulfill the Philosophical and Historical Studies component of the General Education Requirements. Courses 230, 231, 240 and 241 may be used to fulfill the Non-Western or Third World component of the General Education Requirements.

200. History of Western Thought and Society.
Cr. 3. A study of the thought and social development that has characterized the Western tradition from ancient to modern times.

210. Introduction to the Contemporary World.
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.

220. United States History to 1865.
Cr. 3. A study of the various aspects of American civilization from the age of discovery to the end of the Civil War, with emphasis on the development of democratic ideas and institutions.

221. United States History since 1865.
Cr. 3. A study of various aspects of American civilization from the Civil War to the present, with emphasis on the development of industrial and world power against a background of social and cultural tensons.

225. Alternative Perspectives of United States History: Racial Minorities and Mainstream America.
Cr. 3. An examination of interactions between the dominant Anglo-Saxon culture and four separate minority cultures, Indian, African-American, Asian American and Hispanic American, in order to discover the nature of their individual transformations.

Cr. 3. A survey of the major periods of Latin American history to 1825, with emphasis on the pre-Columbian Indian cultures, Africa’s contribution and the Iberian heritage.

231. Contemporary Latin American Civilization.
Cr. 3. A survey of the republics from independence to the present, relating contemporary Latin American problems to underdevelopment and unrest in the current world scene.

240. Traditional East Asian Civilization.
Cr. 3. A survey of the traditional cultures of China, Japan, Vietnam and Korea before the impact of Western civilization.

241. Modern East Asian Civilization.
Cr. 3. A survey of the modern history of China, Japan, Vietnam and Korea, with emphasis on the meeting of East and West and the struggle for development and self-expression in our times.

Note: Courses 351 and 352 are available in Overseas Study Centers only.

301. 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.

312/512. Europe in the Age of the Reformation.
Cr. 3. A study of the political, socio-economic and religious conditions in Europe under the impact of the Protestant Reformation.

Cr. 3. A study of English history in the eighteenth, nineteenth and twentieth centuries. Stress is on understanding the political, cultural and industrial development of England as a great power and its position in the contemporary world.

314/514. The British Imperial Experience.
Cr. 3. A study of the British Empire in history, film, and literature. Particular attention is given to an introduction to the Old Dominions (Canada, Australia, New Zealand and South Africa), to Imperial persuasion, and to theories of colonial identities.

315/515. Contemporary Europe.
Cr. 3. A study of twentieth-century Europe emphasizing the rise and impact of Nazi Germany, the Second World War, and major themes of the post-1945 period.

317/517. Imperial Russia.
Cr. 3. A study of the formation of policies, structures, and attitudes during Russia’s age of empire. This course focuses on the consolidation of centralized control as a retardant to development into a modern state.

318/518. State and Society in the Soviet Union.
Cr. 3. A study of the formation and development of post-revolutionary Soviet society. Emphasis is placed on the influence of an authoritarian legacy and on patterns of political and social interaction. There will also be a brief overview of post-Soviet development.

HISTORY OF THE AMERICAS

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 post-war 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.

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.
History

   Cr. 3. This course examines the nature of the Great Depression and its impact 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 as well as 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 development of American political parties from their appearance in the eighteenth century to the present. Emphasis is placed on the evolution of political leadership, the creation of coalitions and political campaign behavior.

331/531. History of Mexico.
   Cr. 3. A study of the struggle for political, economic and cultural identity in America's southern neighbor.

NON-WESTERN HISTORY

341/541. History of Modern China.
   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.

   Cr. 3. A study of Japan's rise to its position as a world power with emphasis on the consequent social dislocations in the twentieth century.

SPECIALIZED OFFERINGS

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.

393/593. The Vietnam War through Film and Literature.
   Cr. 3. Through history, memoirs, novels, and film, this seminar studies the sources and nature of U.S. involvement in the Vietnam War (1961-1973). It examines the war's effects on the participants and the home front.

476/576. The Interpretation of History.
   Cr. 2. An introduction to selected major historians and their approaches to problems of interpretation faced by students of history. Prerequisite: at least six credit hours of history.

489. The Teaching of Social Studies.
   Cr. 2. (See Education 488.) A study of methods of teaching social studies in secondary schools. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in the Department.

492/592. Reading and Discussion Seminars.
   Cr. 2-3. Fall- 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. Prerequisites: junior or senior standing or consent of the Chair of the Department.

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. Prerequisites: junior or senior standing and the consent of the Chair of the Department.

498. 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.

497. Honors Work in History.
   Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in History.
   Cr. 3. See Honors Work, page 47.

Home Economics

Associate Professors Antommars, D. Davis (Chair).

The Department of Home Economics and the degree Bachelor of Science in Home Economics are being phased out during the 1993-94, 1994-95, and 1995-96 academic years. Home Economics 362 and 364 will be offered for the last time during the 1994-95 academic year.

Interior Design

This program is not available for entering students and is being phased out during the 1993-94 and 1994-95 academic years. Home Economics 330, 342, 392, 441, and 442 will be offered for the last time during the 1994-95 academic year.

   Cr. 3. A study of the basic principles of human nutrition with emphasis on practical application.

   Cr. 3. Basic principles of human nutrition including the functions, requirements and food sources of nutrients. Prerequisite: Chemistry 111 and Biology 151 and 152 or consent of the Chair of the Department.

330. Textiles.
   Cr. 3. Study of basic textile fibers, yarns, and fabric construction and finishes including their origin, processing, and properties. Emphasis on textile terminology, selection and care related to the fields of fashion and interior design. Prerequisites: junior standing or consent of the Chair of the Department; Chemistry 112.
International Economics and Cultural Affairs

Administrative Committee: Associate Professor S. DeMaris (Foreign Languages, Chair); Professors Falkenstein (Foreign Languages), J. Peters (Foreign Languages), Schoppa (History), and Trost (Political Science); Associate Professor Keating (Economics); Assistant Professors S. Baepler (Foreign Languages), Kavanaugh (Foreign Languages), and Prell (Geography).

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 essential background for students considering careers in the fields of international commerce or government service. To implement this goal, it provides 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: French 481, German 481, Japanese 481, or Spanish 481.

Requirements. A minimum of 64 credit hours in courses approved by the Administrative Committee. Courses must include Foreign Language and Literature, 17-18 credit hours beyond course number 103 (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 495). 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 47). Any departmental major or departmental minor may be added to the International Economics and Cultural Affairs program, with the exception of an Economics major or minor and a Foreign Language minor.

Foreign Language and Literature

Choose one of the following language options:

Chinese
- Chinese 101 Beginning Chinese I or
- East Asia 109 Intensive Elementary Chinese ............... ... .... 4-6 Cr.
- Chinese 102 Beginning Chinese II or
- East Asia 110 Intensive Elementary Chinese: Conversation ............... ... .... 4-6 Cr.

East Asia
- Chinese 203 Intermediate Chinese I or
- East Asia 209 Intensive Intermediate Chinese ............... ... .... 4-6 Cr.
- Chinese 204 Intermediate Chinese II or
- East Asia 210 Intensive Intermediate Chinese: Conversation ............... ... .... 4-6 Cr.

Japanese
- Japanese 260 Topics in Japanese Literature & the Fine Arts or
- Japanese 281 Introduction to Japanese Literature or
- East Asia 395 Chinese Culture and Civilization ............... ... .... 3 Cr.

French
- French 204 French Composition and Conversation I.............. 4 Cr.
- French 232 French Civilization from 1870 to the Present .............. 3 Cr.
- French 250 Topics in French Literature and the Fine Arts or
- French 222 French Literature from 1800 to the Present .............. 3 Cr.
- French 306 Contemporary French-Language and Communication .............. 4 Cr.
- French 307 Professional French .............. 3 Cr.
International Economics and Cultural Affairs

German
- German 204: German Composition and Conversation (I) (4 Cr.)
- German 332: German Civilization since 1800 (3 Cr.)
- German 280: Topics in German Literature and the Fine Arts or
- German 332: Selected Readings in German Literature since 1800 (3 Cr.)
- German 306: Contemporary German Language in the Mass Media (4 Cr.)
- German 307: Professional German (3 Cr.)

Japanese
- Japanese 101: Beginning Japanese I (4 Cr.)
- Japanese 102: Beginning Japanese II (4 Cr.)
- Japanese 203: Intermediate Japanese I (4 Cr.)
- Japanese 204: Intermediate Japanese II (4 Cr.)
- Japanese 280: Topics in Japanese Literature and the Fine Arts or
- Japanese 251: Introduction to Japanese Literature (3 Cr.)

Spanish
- Spanish 204: Spanish Composition and Conversation (4 Cr.)
- Spanish 230: Spanish Civilization or
- Spanish 231: Spanish-American Civilization (4 Cr.)
- Spanish 280: Topics in Hispanic Literature and the Fine Arts (3 Cr.)
- Spanish 306: Contemporary Hispanic Society through Communications (4 Cr.)
- Spanish 307: Professional Spanish (3 Cr.)

Economics
- Economics 221: Principles of Economics-Micro (3 Cr.)
- Economics 222: Principles of Economics-Macro (3 Cr.)
- Economics 326: Comparative Economic Systems (3 Cr.)
- Economics 336: Economics of Developing Nations (3 Cr.)

Geography
- Geography 201: Economic Geography (3 Cr.)
- Choose one from:
  - Geography 311-318: Regional Geography (3 Cr.)

History
- History 230: Origins of Latin American Civilization (6 Cr.)
- History 231: Contemporary Latin American Civilization (6 Cr.)
- History 210: Introduction to the Contemporary World (6 Cr.)
- History 315: Contemporary Europe (6 Cr.)

Political Science
- Political Science 130: Comparative Politics or
- Political Science 230: International Relations (3 Cr.)
- Political Science 330: Political Science 335: Politics of Industrialized States or
- Political Science 335: Politics of Developing States (3 Cr.)

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.

- Cr. 3. See Honors Work, page 47.

- Cr. 3. See Honors Work, page 47.

International Service

Administrative Committee:
- Professor J. Peters (Foreign Languages and Literatures, Chair); Professors Henderson (Economics), Ludwig (Theology), Schaefer (History), Trost (Political Science); Associate Professor Evans (Home Economics); Assistant Professors Kenyon (Sociology), Merchant (Social Work); Instructor Kilpinen (Geography).

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 (9 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.

Majors are required to serve in an international internship of 12 credits (ISP 486) and participate in preparation and reentry instruction for the internship (GLST 484 and GLST 489). 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 484, Social Work 210 and 330, one theology course from the theory and issues category, one theology course from the service 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 select either the International Service Learning Internship and its related courses (ISP 486, GLST 484, GLST 489) or the Service Learning Internship, and must take the Senior Seminar in the senior year.

Introductory Courses
- Global Studies 100: Global Perspectives (3 Cr.)
- Political Science 230: International Relations (3 Cr.)

Service Learning Core
- Social Work 210: Social Welfare: Policy and Services (3 Cr.)
- Social Work 330: American Minority Lifestyles and Human Rights (3 Cr.)
- Social Work 410: Analysis of Social Policy (3 Cr.)
- Theology (theoretic issues), choose one:
  - Theology 336: Trends in Twentieth Century Theology (When Topic Is Liberation Theology) (3 Cr.)
  - Theology 336: Black Theology and Black Church (3 Cr.)
  - Theology 342: Christian Faith and Contemporary Politics (3 Cr.)
- Theology (service), choose one:
  - Theology 341: Christian Response to Social Viole (3 Cr.)
  - Theology 390: Topics: The Church and Contemporary Crisis (3 Cr.)
  - Theology 390: Topics: Religion, Racism, and Social Change (3 Cr.)
- Choose an additional course from the above categories or from the following list focused on world regions:
  - Theology 390: Understanding Islamic Religion and Culture (3 Cr.)
  - Theology 383: Religions of China and Japan (3 Cr.)
  - Theology 384: The Buddhist Tradition (3 Cr.)
  - Theology 386: Religion in Africa (3 Cr.)

Regional Emphasis
- Foreign Language appropriate for the region:
  - French, German or Spanish 204 and ... (4 Cr.)
  - One elective numbered above 204 (4 Cr.)
  - Chinese or Japanese 203 and ... (4 Cr.)
  - Chinese or Japanese 204 (4 Cr.)

Two courses with the same regional focus as the foreign language:
- History 315: Contemporary Europe (3 Cr.)
- History 352: Problems in Modern German History (Reutlingen) (3 Cr.)
- Geography 312: Regional Geography of Europe (3 Cr.)
- Political Science 330: Politics of Industrialized States (3 Cr.)
International Service

French 232 French Civilization from 1870 or ........................................... 3 Cr.
German 232 German Civilization since 1800 or ........................................... 3 Cr.
Spanish 230 Spanish Civilization .............................................................. 4 Cr.

Latin America
History 230 Origins of Latin American Civilization or .................................. 3 Cr.
History 231 Contemporary Latin American Civilization or .......................... 3 Cr.
Spanish 231 Spanish American Civilization ................................................. 3 Cr.

Geography 311 Regional Geography of Latin America .................................. 3 Cr.

Spanish 250 Hispanic Literature and Arts ................................................... 3 Cr.

Sociology 330 Points of Intersection (Puebla) .............................................. 3 Cr.

Sociology 347 Political Sociology ............................................................... 3 Cr.

Sociology 230 Points of Intersection .......................................................... 3 Cr.

Gl GT 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.

GLST 486. 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.

GLST 487. The International Experience: Reentry. Cr. 5. A debriefing of the students’ international experience into the 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.

ISP 486. International Service-Learning Internship. Cr. 3. Students gain experience through placement with a service organization or agency in a foreign country. Prerequisite: GLST 484, junior standing, and application in writing to the Chair one semester in advance. Generally taken concurrently with an international study semester.

ISP 487. Service-Learning Internship. Cr. 3. Students gain experience through working with an agency or organization involved in international service. Prerequisite: junior standing and application in writing to the Chair one semester in advance.

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 collateral majors. Prerequisite: senior standing or consent of the Chair.

Support Core
Choose two courses in two different departments (courses with an asterisk have prerequisites):
Economics 136 Economics of Health Education and Welfare ........................................... 3 Cr.
Economics 233 Economics of Race and Gender ........................................... 3 Cr.
Economics 236 Comparative Economic Systems ........................................... 3 Cr.
Economics 326 International Economics* .................................................. 3 Cr.
Economics 336 Economics of Developing Nations* ..................................... 3 Cr.
Home Economics 214 Fundamental Nutrition ........................................... 3 Cr.
Home Economics 260 Human Nutrition* ................................................... 3 Cr.
Political Science 360 Public Administration* ............................................. 3 Cr.
Psychology 390 Cross-Cultural Psychology .................................................. 3 Cr.
Sociology 230 Peoples of the World ........................................................... 3 Cr.
Sociology 347 Race and Ethnic Relations .................................................... 3 Cr.
General Studies 365 Food, Health, and Community Development ................ 3 Cr.
Nursing 318 Global Health Issues .............................................................. 3 Cr.

Service Learning Internship
Global Studies 484 The international Experience—Preparation ........................ 0.5 Cr.
Global Studies 485 The international Experience—Re-entry ............................ 0.5 Cr.
International Service Program 486 International Service Learning Internship ........................................................... 3 Cr.
International Service Program 487 International Service Learning Internship (complementary major only) ........................................................... 1 Cr.
International Service Program 493 International Service Senior Seminar .... 3 Cr.

Mathematics and Computer Science

Professors Caristi, D. Johnson, Marion, Mundt, Sorensen; Associate Professors Carlson, Gillman, N. Hughes, Hull, Krebs, J. Lehmann, Sullivan (Chair), Treasurer, Wagenblast; Assistant Professor Hume.

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 28 credit hours in mathematics constitutes a major. Courses must include those in one of the following programs.

Program 1. (Emphasis on Mathematical Analysis): Mathematics (131 or 151), 152, 223 or 253), either 260 or (267 and 268), 264, 399, 451, 461, 489, and one or two courses chosen with the consent of the chair.

Program 2. (Emphasis on Operations Research): Mathematics (131 or 151), 152, 223 or 253), either 260 or (267 and 268), 240, 264, 322, 344, 399, 422, and 499.

Majors from both programs must also complete Computer Science 157. Mathematics majors are strongly encouraged to take Computer Science 158 and 225.

Completion of the degree requirements of the College of Arts and Sciences with a Program 1 or Program 2 major in mathematics leads to the Bachelor of Arts or Bachelor of Science degree. A student seeking the Bachelor of Science degree with a major in mathematics must complete at least 32 credit hours in mathematics.

A student having a mathematics major in view should begin mathematics in the freshman year. A mathematics major should elect French or German to satisfy the foreign language component of the General Education Requirements. Anyone in either program planning to do graduate work in mathematics should include Mathematics 452 and 462.

A student in either program may tailor a mathematics major with a statistical emphasis. This option includes Mathematics 240, 340, 341, 342, and 344. In addition to regular courses, members of the faculty offer study sessions that prepare students to take the first two examinations offered by the Society of Actuaries. Valparaiso University is a testing center for these examinations.

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 one of the courses 122, 132, or 152 constitutes a minor in mathematics. No more than two of the following courses may be included: Mathematics 120, 122, 124, 131, 132, 151, 152, 213, 214.

See page 186 for a description of the Applied Statistics Minor.

Teaching Preparation. 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 a required course, with the exception of Mathematics 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, the Department of Mathematics and Computer Science will recommend which course(s) each student should take. A student who is recommended for Mathematics 120 or 114 may not take a course numbered above 120 without the consent of the Chair of the Department or his designated representative. A student who is placed directly into Mathematics 152 will receive 4 credits for Mathematics 151 and 5 credits for Mathematics 152 by passing Mathematics 152 with a grade of C or higher.

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.

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 nor be counted toward a major or minor in mathematics.

120 (formerly 104). 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.

122. Intuitive Calculus of One or More Variables. Cr. 4. (See paragrap on Placement.) A course for students who plan to take one 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 nor be counted toward a major or minor in mathematics.

123. Calculus I. Cr. 4. (See paragraph on Placement.) A first course in the calculus sequence designed for students who plan to take one or more calculus sequences. 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 nor be counted toward a major or minor in mathematics.

124. Finite Mathematics. Cr. 4. (See paragraph on Placement.) A course for students who wish to gain an understanding of basic mathematical models and the power of quantitative methods to solve practical problems. This course is recommended for students who are interested in mathematical models for the life, management or social sciences. Topics include limits, continuity, derivatives and their applications and selected topics in multivariate calculus. Not open to students with credit for Mathematics 131 or 151. Prerequisite: Mathematics 114 or the equivalent.

125. Analytic Geometry and Calculus I. Cr. 5. (See paragraph on Placement.) A first course in the calculus sequence designed for students who plan to major in mathematics, engineering or a physical science. Prerequisite: concurrent registration in Mathematics 151, more time is devoted to the precalculus aspects of the material and to the development of the student's ability to interpret theorems. Topics include an extensive review of set theory, the real number system, inequalities, absolute value, exponential functions, and logarithmic functions, and their graphs. Not open to students with credit for Mathematics 122 or 151.

126. Analytic Geometry and Calculus II. Cr. 5. A continuation of Mathematics 131. Topics include techniques of integration; applications of the definite integral; exponential, logarithmic and inverse trigonometric functions; integration by substitution; improper integrals; sequences and series. Not open to students with credit for Mathematics 122 or 151.

127. Calculus II. Cr. 4. (See paragraph on Placement.) A course for students who plan to take one calculus sequence. Topics may include limits, continuity, derivatives, and applications of the derivative; an introduction to the theory of the integral; techniques of integration. Not open to students with credit for Mathematics 122 or 131.

182. Calculus III. Cr. 5. A continuation of Mathematics 151. Topics include applications of the definite integral; additional techniques of integration; exponential, logarithmic and inverse trigonometric functions; introduction to differential equations; infinite series and improper integrals; sequences and series. Not open to students with credit for Mathematics 132. Prerequisite: Mathematics 131 or 151.

211. Laboratory in Elementary Mathematics I. 0+1, Cr. 0. This course is designed to provide an opportunity for prospective elementary teachers to learn mathematical concepts in an active, materials-oriented context and to acquaint them with mathematical content in use in the elementary school. Topics correspond to those in Mathematics 213. Enrollment is restricted to students majoring in elementary education. Prerequisite: concurrent registration in Mathematics 213. S/U grade.

212. Laboratory in Elementary Mathematics II. 0+1, Cr. 1. A continuation of Mathematics 211. Topics correspond to those in Mathematics 214. Prerequisite: concurrent registration in Mathematics 214. S/U grade.

213. Mathematics for Elementary Teachers I. Cr. 4. This course is restricted to students majoring in elementary education. Topics include elementary logic, sets, problem solving, data analysis, and probability. Not open to students with credit for Mathematics 122 or 151.

214. Mathematics for Elementary Teachers II. Cr. 4. A continuation of Mathematics 213. Topics include elementary logic, sets, problem solving, data analysis, and probability. Not open to students with credit for Mathematics 122 or 151.

232. Analytic Geometry and Calculus III. Cr. 4. A continuation of Mathematics 231. Topics include vectors, vector algebra, space curves, partial derivatives, multiple integration, vector fields, and applications. Not open to students with credit for Mathematics 233. Prerequisite: Mathematics 122 or 151.

233. Differential Equations and Linear Algebra. Cr. 4. Elementary and linear differential equations, applications of differential equations, matrices and systems of linear equations, eigenvalues and eigenvectors. Not open to students with credit for Mathematics 122 or 151.

234. Differential Equations and Linear Algebra. Cr. 4. Elementary and linear differential equations, applications of differential equations, matrices and systems of linear equations, eigenvalues and eigenvectors. Not open to students with credit for Mathematics 122 or 151.

#Credit for Mathematics 240 may be earned through the College Level Examination Program subject examination in Introductory Calculus.
342. Mathematical Models in the Life and Social Sciences
Cr. 3. Topics are chosen according to the interests of the class. These may include utility and measurement, game theory, learning models, models of growth processes, simulation. Prerequisites: a statistics course and one of the following: Mathematics 122, 132, or 152. Offered in alternate years.

322. Optimization
Cr. 3. Theory and computer algorithms for the solution of mathematical programming problems and applications. Topics include the simplex method, cutting planes, branch and bound methods and numerical methods for unconstrained optimization, game theory and dynamic programming. Prerequisites: Mathematics 260 and 264. Offered in alternate years.

340. Statistics for Decision Making
Cr. 3. (Also offered as Decision Sciences 340.) A study of statistical concepts and methods to facilitate decision making. Content includes analysis of variance, simple and multiple regression, correlation, time-series analysis, nonparametric methods and Bayesian decision making. Prerequisite: Mathematics 240 or Decision Science 205.

341. Probability
Cr. 3. A course in probability with some topics applicable to statistics. Topics include probability spaces, random variables, classical discrete and continuous probability distributions. Prerequisites: Mathematics 122 and 240, or 152 and 240.

342. Mathematical Statistics
Cr. 3. This is a course in statistics based upon the probability background of Mathematics 341. Topics include sampling theory, estimation, tests of hypotheses, analysis of variance, and nonparametric statistics. Prerequisite: Mathematics 341. Offered upon sufficient demand.

344. Applied Probability and Statistical Decision Theory
Cr. 3. A survey of probabilistic models used in decision theory. Topics include stochastic processes, queueing theory, forecasting, Bayesian decision theory, reliability, and simulation. Prerequisites: Mathematics 240 and (234 or 262 or 264). Offered in alternate years.

350. Differential Equations
Cr. 3. Elementary and linear differential equations, systems of equations, series solutions including the method of Frobenius, Laplace transforms, applications. Prerequisites: Mathematics 235 or (253 and 234) or (224 and 234).

370. Numerical Methods
Cr. 3. (Also offered as Computer Science 370). 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 non-linear equations and error analysis. Students are expected to solve problems using a digital computer. Prerequisites: Computer Science 225 or its equivalent and one of the following: Mathematics 350; Mathematics (233 or 253) and 224; Mathematics 152 and 264.

381. Cooperative Education in Mathematics I
Cr. 1-2. The application of mathematical concepts in a professional setting. Grade based on employer’s evaluation and student’s written and oral reports. Prerequisites: Mathematics 234 or 350 or approval of the Chair of the Department. S/U grade.

382-383. Cooperative Education in Mathematics II-III
Cr. 1-2. Internship in Mathematics 381. Prerequisite: Mathematics 381. S/U grade. May be repeated beyond 383 for additional credit.

389. Mathematics Colloquium
Cr. 0. All mathematics majors with at least sophomore standing are expected to register for this course. Students are required to attend sessions of Mathematics 489 and to participate in the discussion of topics presented by faculty and students. S/U grade.

422. Graphs and Networks
Cr. 3. A theoretical study of applied graph theory and network theory. Topics include graph colorings, Hamiltonian and Eulerian graphs, trees, assignment problems, and max-flow/min-cut problems. Prerequisite: Mathematics 322. Offered in alternate years.

430. Fourier Series and Boundary Value Problems
Cr. 3-4. Fourier series and orthogonal functions, Bessel and gamma functions, Sturm-Liouville systems, initial and boundary value problems involving partial differential equations, and other selected topics. Prerequisite: Mathematics 350.

434. Introduction to Complex Variables
Cr. 3. Analytic functions, derivatives, power and Laurent series, integrals, residues, conformal mapping, applications to partial differential equations. Prerequisite: Mathematics (233 and 234) or 262. Offered upon sufficient demand.

451. Analysis I
Cr. 3. Differentiation and convergence in real n-space, implicit and inverse function theorems, topology of real n-space, and uniform convergence. Prerequisites: Mathematics 260 and (233 or 253) and (234 or 264).

452. Analysis II
Cr. 3. Theory of integrals, multiple integration and the Jacobian, line and surface integration, metric spaces and their topology. Prerequisite: Mathematics 451. Offered upon sufficient demand.

461. Abstract Algebra I
Cr. 3. A study of mathematical structures: groups, rings, and fields. Properties of groups; substructures, quotient structures, and homomorphisms. Prerequisite: Mathematics 260 and 264.

462. Abstract Algebra II
Cr. 3. A continuation of Mathematics 461. Topics may include a more detailed study of rings, polynomial rings, field extensions, field automorphisms, an introduction to Galois theory, further work in group theory, an introduction to abstract algebra. Prerequisite: Mathematics 461. Offered upon sufficient demand.

489. The Teaching of Mathematics
Cr. 2. A study of the methods of teaching mathematics in secondary schools. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or a minor in Mathematics.

491. Advanced Topics in Mathematics
Cr. 3. An advanced course for mathematics majors. The topic studied, which may change from year to year, is ordinarily one of the following: number theory, abstract algebra, differential geometry, partial differential equations, measure and integration, or functional analysis. Prerequisite: consent of the Chair of the Department. Specific course requirements depend on the content. Offered upon sufficient demand.

492. Research in Mathematics
Cr. 3. Each student must undertake a research problem in mathematics under the direction of a faculty member. Written and oral reports are required. Prerequisite: consent of the Chair of the Department.

493. Seminar in Applied Statistics
Cr. 3. (Also offered as Economics 493 and as Decision Science 493.) An intensive study of selected topics, methods, techniques, and problems in applied statistics. Prerequisite: Mathematics 340 or Decision Sciences 340 or Economics 325.

495. Independent Study in Mathematics
Cr. 1-3. Students study advanced topics in mathematics under the supervision of a faculty member. Written work is required. Prerequisite: consent of the Chair of the Department.

497. Honors Work in Mathematics
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Mathematics
Cr. 3. See Honors Work, page 47.

499. Mathematics Colloquium
Cr. 1. Student presentation of selected topics in mathematics arising from the mathematical literature. Students register for this course during one semester of their senior year. Prerequisite: Mathematics 399.

Computer Science

Major. A minimum of 28 credit hours in Computer Science constitutes a major. Courses must include Computer Science 157, 158, 235, 246, 355, 375, 493. Of the remaining credits all must be from Computer Science courses numbered above 120, including at least 6 credits from Computer Science courses numbered above 300.

Majors must complete the following mathematics courses: Mathematics 122 or 132 or 152; Mathematics 267; and Mathematics 268. Any student considering the study of computer graphics or graduate study in Computer Science is strongly encouraged to take a course in linear algebra before graduation.

A student seeking the Bachelor of Science degree with a major in Computer Science must complete the above program. In addition the student must complete Computer Science 386. The minimum number of credits in Computer Science for the Bachelor of Science degree is 32.

Computer Science majors who elect to or who must satisfy the foreign language component of the General Education Requirements should take German or French.

A student planning to major in Computer Science should begin both Computer Science and Mathematics in the freshmen year.

Minor. A Computer Science minor consists of a minimum of 15 credit hours in computer science. Courses must include Computer Science 157, 158, 235, 246, and one 3 credit Computer Science course numbered above 230. In addition, the student must complete Mathematics (122 and 267) or (131 and 132) or (151 and 152) and 240.
Mathematics and Computer Science

Cooperative Education. Credit in Computer Science may be obtained for cooperative education experiences relating to Computer Science. Students must prepare a brief proposal describing the intended experience and secure a Computer Science advisor, who will decide whether the work merits Computer Science credit. For each term of Computer Science related work, students may receive 2 credits for a summer experience, or 3 credits for a full-time semester experience. No more than 3 credits may be counted toward the minimum major requirements or the Computer Science minor. An exception may be made in the case of the Bachelor of Science degree, where up to 4 credits in Cooperative Education may be counted toward the major (no single major). If these credits are used to fulfill minimum credit hour requirements for a major or minor, at least two Computer Science experiences are required, at least one of which must be a full-time semester experience. In addition to meeting the College of Arts and Sciences 2.50 cumulative grade point average requirement, students must present a 2.00 grade point average for all required Computer Science courses in the major taken prior to participation in the Cooperative Education program. For further information, refer to Cooperative Education, College of Arts and Sciences, page 48.

115. Computers and Computation. Cr. 4. A general survey of central topics in computer science with emphasis on the scientific aspects of computation. This course stresses analysis of algorithms, human-machine interfaces, software engineering, modelling of data, and sequential and parallel computation will be introduced to demonstrate how computing relates to other disciplines. Experiments in a laboratory environment will be part of the course. This course may be used to fulfill the Natural Science and Mathematics component of the General Education Requirements.

117. Introduction to Computers. Cr. 3. This course is intended to fulfill the requirements for students in the College of Business Administration and other professional programs. Included are topics regarding computer systems, with an emphasis on the use of software packages such as word processing, spreadsheets, data bases, and graphics. This course may NOT be used to fulfill the Natural Science and Mathematics component of the General Education Requirements. Offered for the last time in Fall 1994.

128. BASIC Programming. Cr. 1-3. (Normally 3 Cr. A-1 Cr. version for science majors is offered as needed.) An introduction to computer problem-solving techniques using the BASIC language. Prerequisite: proficiency in algebra.

187. Algorithms and Programming I. Cr. 3. A fundamentals course in computer development and problem solving and an introduction to the use of a computer system with special emphasis on structured programming concepts in a language such as Pascal. In order to solve problems in a computer environment, the student designs elementary algorithms and writes, debugs and documents programs for the implementation of those algorithms. Students may not receive credit for both Computer Science 157 and Electrical and Computer Engineering 156.

188. Algorithms and Programming II. Cr. 3. (Also offered as Electrical and Computer Engineering 168.) A continuation of Computer Science 157, with emphasis on the development of structure and discipline in program design and style, especially for intermediate size programs. Prerequisites: Computer Science 157 or Electrical and Computer Engineering 156 or 202.

220. Digital System Design. Cr. 3. (Also offered as Electrical and Computer Engineering 220.) Fundamentals of logic design, information transfer and control in a digital system, organization and structure of hardware components of digital computers.

225. The FORTRAN Language. Cr. 2. An introduction to FORTRAN as a second programming language. Prerequisite: Computer Science 157 or Electrical and Computer Engineering 156 or permission of the instructor.

226. COBOL Programming. Cr. 3. An introduction to computer programming in a business environment. Emphasis on the fundamentals of structured program design and development, testing, implementation and documentation of common business-oriented applications using COBOL. Sequential and random access files and the techniques for manipulating them in COBOL. Prerequisite: Computer Science 157 or Electrical and Computer Engineering 156.

235. Data Structures. Cr. 3. (Also offered as Electrical and Computer Engineering 235.) A detailed study of various data structures, including stacks, queues, linked lists and trees. The emphasis will be on algorithms to build and manipulate the data structures, various implementations, time analysis of the algorithms and applications, such as garbage collection.

246. Computer Architecture and Programming. 2+2. Cr. 3. (Also offered as Electrical and Computer Engineering 246.) 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: Computer Science 158.

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 Computer Science 157. Specific requirements depend on course content.

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.

335. Database Management Systems. Cr. 3. Concepts and structures used in designing and implementing database management systems. Topics include the important data models, normalization, data dictionaries, languages for data definition and manipulation, security, integrity, and reliability. Prerequisite: Computer Science 226.

345. Operating Systems and Systems Programming. Cr. 3. An introduction to the concepts of operating system programming and interrelationships between the operating system and machine architecture. Topics include processes, resource management and interrupt-driven processing. Students program in assembly language. Prerequisites: Computer Science 235 and 246. Offered upon sufficient demand.

350. Organization of Programming Languages. Cr. 3. (Also offered as Electrical and Computer Engineering 350.) Formal language constructs as exhibited in a variety of programming languages. Topics include syntax and basic characteristics of grammars, parsing, data types and structures, run-time considerations. Corequisite: Computer Science 235. Recommended: Mathematics 267 or 268.

358. Software Design and Development. 3+2. Cr. 4. The specification, design, implementation, documentation and testing of software systems. Principles of project management. Case studies. Intensive work on a project group, directed by the instructor, to design and develop a usable software system. Prerequisites: Computer Science 235.

365. Interactive Computer Graphics. Cr. 3. (Also offered as Mechanical Engineering 440.) 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 geometric algorithms. Prerequisites: Computer Science 158 (Computer Science 235 is recommended) and Mathematics 234 or 262 or 264.

370. Artificial Intelligence. Cr. 3. Introduction to the techniques used in the field of artificial intelligence. Topics include problem solving using a digital computer. Prerequisites: Computer Science 225 or the equivalent and one of the following: Mathematics 350; Mathematics 233 or 253 and 234; Mathematics 152 and 264; Mathematics 223 and 262.

376. 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: Computer Science 235 and Mathematics 238.

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: Computer Science 235; approval of Cooperative Education Adviser and the Chair of the Department. S/J grade.

382-383 Cooperative Education in Computer Science II-III. Cr. 0.5-3. Continuation of Computer Science 381. Prerequisites: Computer Science 381 and approval of the Chair of the Department. S/J 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, queueing and scheduling, resource protection and access. Prerequisites: Computer Science 345 and a course in probability and statistics. Offered upon sufficient demand.

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 data base definition and inquiry languages. Prerequisites: Computer Science 246 and 355 and Mathematics 360. Offered upon sufficient demand.

458. Senior Project.  
Cr. 3. The student defines a suitable computer application, develops the necessary software using appropriate techniques and prepares documentation for the use and support of the application, develops and tests the software, and prepares reports. Prerequisites: Computer Science 345 and a course in probability and statistics. Offered upon sufficient demand.

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 depend on topic. Offered upon sufficient demand.

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: Computer Science 355 and 368 and a proposal approved by the Chair of the Department.

493. Seminar in Computer Science.  
Cr. 1. Student-staff presentation of selected topics in computer science arising from journal reading and research. Prerequisite: Computer Science 235 and 246. Offered upon sufficient demand.

499. 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.

497. Honors Work in Computer Science.  
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Computer Science.  
Cr. 3. See Honors Work, page 47.

Modern European Studies

Administrative Committee:  
Professor Startt (History, Chair);  
Professors Henderson (Economics), Morgan (Art), J. Peters (Foreign Languages), Ruff (English), Trost (Political Science).

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 particular 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.

Program Core

There are no prerequisites for Economics 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.

Art 318 19th Century European Art or  
Art 319 Early 20th Century European Art 3 Cr.  
Economics 370 History of Economic Thought 3 Cr.  
History 315 Contemporary Europe 3 Cr.  
Political Science 330 Politics of Industrialized States 3 Cr.  
Select one of the following:  
French 222 French Literature from 1800 to the Present 3 Cr.  
German 222 Selected Readings in German Literature since 1800 3 Cr.  
Spanish 321 Spanish Literature 3 Cr.  
English Literature, select from 400- 
level English Literature courses 3 Cr.

Major. Thirty-three credit hours constitutes a major. They must include the Program Core courses, 15 credit hours in courses selected from at least three of the participating departments, and Modern European Studies 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.
### Modern European Studies

#### Elective Courses

Foreign Language courses numbered 250 and above are taught in translation and may be counted when the topic is appropriate. Topical courses numbered 250 or 450 may be taken from participating departments when they focus on a European topic.

- **Art 102** Art History ........................................ 3 Cr.
- **Art 311** Topics in the Theory and History of Art ........... 1-4 Cr.
- **Art 317** 17th and 18th Century European Art ............. 3 Cr.
- **Art 318** 19th Century European Art ........................ 3 Cr.
- **Art 319** Early 20th Century European Art .......... 3 Cr.
- **Economics 236** Comparative Economic Systems .......... 3 Cr.
- **Economics 398** Modern European Economic History .... 3 Cr.
- **English 420** Literature of the 16th and 17th Centuries ... 3 Cr.
- **English 430** Literature of the Restoration and 18th Century 3 Cr.
- **English 450** Literature of the 19th Century ................ 3 Cr.
- **English 458** The Novel ....................................... 3 Cr.
- **English 460** Modern Drama .................................. 3 Cr.
- **English 470** Modern Fiction ................................ 3 Cr.
- **English 475** Modern Poetry ................................ 3 Cr.
- **French 221** French Literature from the Middle Ages to 1800 3 Cr.
- **French 222** French Literature from 1800 to the Present ... 3 Cr.
- **French 231** French Civilization to 1800 ....................... 3 Cr.
- **French 232** French Civilization from 1800 to the Present ... 3 Cr.
- **German 221** Selected Readings in German Literature to 1800 3 Cr.
- **German 222** Selected Readings in German Literature since 1800 3 Cr.
- **German 231** German Civilization to 1800 .................... 3 Cr.
- **German 232** German Civilization since 1800 ................. 3 Cr.
- **German 250** Topics in German Literature and the Fine Arts 3 Cr.
- **Spanish 230** Spanish Civilization ............................. 3 Cr.
- **Spanish 250** Topics in Hispanic Literature and the Fine Arts 3 Cr.
- **Spanish 321** Spanish Literature ................................ 3 Cr.
- **Geography 312** Regional Geography of Europe ............. 3 Cr.
- **History 312** Europe in the Age of the Reformation .... 3 Cr.
- **History 313** History of Modern England .................... 3 Cr.
- **History 314** The British Imperial Experience ............... 3 Cr.
- **History 317** Imperial Russia .................................. 3 Cr.
- **History 318** State and Society in the Soviet Union .... 3 Cr.
- **History 492** Readings and Discussion (when the topic is appropriate) 3 Cr.
- **Philosophy 225** Early Modern Philosophy .................. 3 Cr.
- **Philosophy 360** Existentialism and Contemporary Continental Philosophy 3 Cr.
- **Political Science 130** Comparative Politics ................. 3 Cr.
- **Political Science 230** International Relations .......... 3 Cr.
- **Theatre and Television Arts 339** Theatre as Art .......... 3 Cr.

### Modern European Studies 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.

### Music

**Professors W. Elfrig, Tsalchow; Associate Professors Berenthal, L. Ferguson (Chair); Jean, Lewis; Assistant Professors Berenthal, Emery, Friesen-Carper; Instructor Doebler.**

Depending on individual interests, students may be admitted to a curriculum which leads to one of three degrees: Bachelor of Music, Bachelor of Music or Bachelor of Music Education. An interdisciplinary program in Music Enterprises is also available. Students interested in the Deaconess Program Plan 2 combine deaconess training with church music study; see page 46.

Career opportunities in music are many and varied. Teaching in elementary, junior high or high schools and at the college level provide most of the openings for well qualified music educators. Church music positions are sometimes combined with school teaching or with private music instruction. Other careers are available in music merchandising, music libraries, music administration and the technical and electronic areas related to music. Music publishing and entertainment fields offer other interesting employment possibilities.

**Admission.** A student who wishes to enroll in any of the degree programs in music must take a profile exam in musicianship and performance, besides meeting all the general requirements for admission to the College of Arts and Sciences. Information regarding the entrance test, which is given before matriculation, may be obtained from the Chair of the Department.

**Approval of Schedules.** All candidates for the Bachelor of Arts degree taking a major in Music and all candidates for the Bachelor of Music and Bachelor of Music Education degrees must have their schedules approved by their major advisers at the beginning of each semester.

**Departmental Requirements.**

Regulations concerning student performance, concert attendance, ensemble participation and other matters which concern majors and minors within the Department are given in the Department Handbook for Music Students, which is available in the Department Office.

**Special Seminars and Workshops.**

Visiting artists and lecturers are brought to the campus from time to time to conduct seminars and workshops in various fields of music. The Church Music Seminar, instrumental and vocal clinics, master classes by guest artists and other such events give added breadth to the students' musical education through their observation of a skilled artist or conductor at work.

### Bachelor of Arts

This degree program places music study within the liberal arts, a center for the student's complete education. It is possible to combine this major with a major or minor in other disciplines. A candidate 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 Music 109, 110, 163, 164, 263; two from Music 317, 318 and 319; six credit hours in the student's principal performing medium (completion of Music 203) and four credit hours of ensemble music. Students pursuing the 40 credit hour music major option must include Music 209, 264, 317, 318, and 319.

**Music Minor.** A minimum of 16 credit hours in Music constitutes a minor. Courses must include Music 109, 110, 163 and 164, and four credit hours of studio instruction (completion of Music 103).

Majors and minors must pass the performance tests set for them by this department.

**Music Enterprises Program Major.**

Music Enterprises is an interdisciplinary concentration in Music/Business that requires 37 credit hours in Music and 21 credit hours in Business.

The combining of arts with technology is a dynamic phenomenon of contemporary society. Music Enterprises is designed to prepare students for management positions in the manufacturing, publishing, distribution, and retailing aspects of the music industry. Students who complete the Music/Business program fulfill the major requirements for the Bachelor of Arts degree. In addition, "Music Enterprises" is noted on their transcripts.
### Bachelor of Music Education

The General Education Requirements for this degree are given on page 42. Also required are General Psychology 101 (3 cr.) and one course from Communication 145, 243 or Theatre and Television Arts 141 (3 cr.). The music requirements are outlined below:

<table>
<thead>
<tr>
<th>Music Core</th>
<th>6 Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 109, 110 Basic Musicianship</td>
<td>6 Cr.</td>
</tr>
<tr>
<td>Music 163, 164, 203 Music Theory</td>
<td>9 Cr.</td>
</tr>
<tr>
<td>Choose two of the following:</td>
<td>6 Cr.</td>
</tr>
<tr>
<td>Music 330, 331</td>
<td>6 Cr.</td>
</tr>
<tr>
<td>Music 315 History and Literature of Music I</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Music 318 History and Literature of Music II</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Music 319 History and Literature of Music III</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Music Performance</td>
<td>6 Cr.</td>
</tr>
<tr>
<td>Music Ensemble (050-058)</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Total</td>
<td>31 Cr.</td>
</tr>
</tbody>
</table>

### Music/Theatre Complementary Major

<table>
<thead>
<tr>
<th>Music/Theatre Complementary Major</th>
<th>6 Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 210 Language Diction</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 211/TVA 211 Language Diction</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 404 Recital</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>Music 390/TVA 390 Integrated Performance Arts</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>TAT 135 Acting I</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>TTV 136 Acting II</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>TTV 237 Modern Dance I</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>TTV 395 (Dance Forms)</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Total</td>
<td>24 Cr.</td>
</tr>
</tbody>
</table>

### Bachelor of Music

This program is intended for performers, music teachers in the public and parochial schools, studio teachers, church musicians and others who wish to continue their professional studies at the graduate level. An appropriate bachelor's degree in music is a prerequisite.

### Other Requirements

<table>
<thead>
<tr>
<th>Program: Church Music Composition</th>
<th>9 Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 312</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 313</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 404</td>
<td>1+2</td>
</tr>
<tr>
<td>Music 415</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 454</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>Music 471</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 474</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Composition</td>
<td>12 Cr.</td>
</tr>
<tr>
<td>Piano</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Organ</td>
<td>20+</td>
</tr>
<tr>
<td>TOTAL</td>
<td>40 Cr.</td>
</tr>
<tr>
<td>Electives</td>
<td>3+</td>
</tr>
<tr>
<td>Total required</td>
<td>128 Cr.</td>
</tr>
</tbody>
</table>

### Program: Performance

<table>
<thead>
<tr>
<th>ORCHESTRAL ORGAN PIANO VOICE INSTRUMENT</th>
<th>9 Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 315</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 210, 211</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 404</td>
<td>1+2</td>
</tr>
<tr>
<td>Music 415</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Music 454</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>Piano</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Principal Instrument</td>
<td>20+</td>
</tr>
<tr>
<td>Total</td>
<td>30+</td>
</tr>
<tr>
<td>Electives</td>
<td>5 Cr.</td>
</tr>
<tr>
<td>Total required</td>
<td>128 Cr.</td>
</tr>
</tbody>
</table>

#Completion of Music 453 is required. #Completion of Music 453 is required; the total may include Music 239.
Music

213. Basic Conducting.
Cr. 2. An introduction to conducting including a study of score reading, beat patterns, acoustics and interpretive principles. Prerequisite: Music 164 or consent of the instructor.

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.

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 knowledge of the instruments.

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.

236. Guitar Instructional Methods.
0+2, Cr. 1. Guitar is studied for the purpose of giving the student the basic playing skills necessary for the use of the guitar in classroom music teaching.

237. Percussion Instructional Methods.
0+2, Cr. 2. Percussion instruments are studied for the purpose of giving the student a fundamental playing and teaching knowledge of the instruments.

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.

263. Music Theory.
Cr. 3. A continuation of Music 164 with special emphasis on the harmonic developments (bowed and altered chords, extended tertian chords) of the Romantic period and the late 19th century musical techniques. The continued development of analytical skills is the primary goal of the course. Prerequisite: Music 164.

264. Music Theory.
Cr. 3. A course developing the skills of analysis, creative writing, and listening in the study of 18th century counterpoint (melodic construction, two-voice writing, canon, invention, and fugue). Also included is a study of larger forms (variations, rondo, and sonata-allegro) and an introduction to later 20th century musical techniques. Prerequisite: Music 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.

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.

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 capabilities is learned; skills in combining voices and instruments in various ensembles are practiced. Prerequisite: Music 164.

313. Intermediate Conducting.
Cr. 2. A continuation of Music 213. Includes rehearsal techniques, specific choral and instrumental conducting problems and ensemble conducting experience. Prerequisite: Music 213.

317. History and Literature of Music I.
Cr. 3. The development of musical thought and literature to 1700. Prerequisites: Music 110 and 263. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

318. History and Literature of Music II.
Cr. 3. The development of musical thought and literature from 1700 to 1880. Prerequisites: Music 110 and 263. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

319. History and Literature of Music III.
Cr. 3. A study of music and musical thought from 1880 to the present. Prerequisites: Music 110 and 263. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

375. Music Enterprises.
Cr. 3. The major objective of this course is to acquaint the student with basic information for successful 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 to be covered include retailing, publishing, manufacturing, performing and recording and managing musical enterprises.

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/middle schools. Prerequisite: Music 164.

390. Topics in Music.
Cr. 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 not duplicated. Prerequisite: Junior standing.

404. Recital.

413/813. Advanced Conducting, Choral/Instrumental.
Cr. 2. A study of instrumental and choral scores, conducting techniques and materials. Prerequisite: Music 313 or the equivalent.

Cr. 2. A continuation of Music 413/813.

415/815. 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 Music 164, or permission of the instructor. Offered in alternate years.

421/521. Pro-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. Offered in alternate years.

423/523. Pro-Seminar in the Pedagogy of Music.
Cr. 2. A consideration of the problems of teaching basic music skills 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.

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.

Cr. 1. A survey of pedagogical materials and methodology of the student's performance area. Students will be required to observe lessons and do practical teaching during the semester. Must be taken concurrently with Music 453.

Cr. 3. Impressionism, free tonality, atonality, serialism, aleatoric music, and electronic music are investigated and systems of analysis developed by Hindemith and Forte are introduced. Music of Debussy, Hindemith, Stravinsky, Bartok, Webern, Schoenberg, and Penderecki is studied with particular attention given to musical technique and style. Prerequisite: Music 264 or permission of the instructor. For graduate students: Music 264 or its equivalent as demonstrated on the graduate Music Theory Examination.

464/564. Music Theory.
Cr. 3. A study of 16th century counterpoint through creative writing, listening, and analysis. An intensive study of selected musical forms including variant, rondo, rondo-sonata, and sonata-allegro is undertaken as well as an introduction to the analytical method of Heinrich Schenker. Prerequisite: Music 264 or permission of the instructor. For graduate students: Music 264 or its equivalent as demonstrated on the graduate Music Theory Examination.

471/571. Hymnology.
Cr. 2. A study of the Christian hymn from its earliest sources to the present day. Prerequisites: junior standing and consent of the Chair of the Department. Offered alternate years.

474/574. History of Church Music.
Cr. 2. A study of the development of church music from the earliest history of the Church in the Old Testament to the present. Prerequisites: junior standing and consent of the Chair of the Department. Offered alternate years.

486. Internship.
Cr. 3. A consideration of principles and practice in the field of music. May be repeated for credit. Prerequisite: Music 375.

489. School Music II.
Cr. 2. 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. Prerequisite: Music 389 and admission to supervised teaching.

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 examination on a topic approved by the adviser. Prerequisites: Music 264 and 318.

497. Honors Work in Music.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Music.
Cr. 3. See Honors Work, page 47.

499. Music Colloquium.
Cr. 0. All music majors will register for this course each semester in residence. SU grade.
Music

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 209 for appropriate fees.

Cr. 1-3. A four-year undergraduate and graduate program in studio instruction is offered to students of Valparaiso University in piano, organ, harpsichord, orchestral and band instruments, voice and guitar. 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. Studio instruction is available to all students of the University including the Evening Division. All students may register 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 is supplemented with repertoire classes in the various media which are scheduled to meet one 50-minute period per week.

Students will register for one of the following levels in their studio instruction medium: 003, 103, 203, 303, 403, 453, 503, 603.

Students with no prior or minimal study should register for Music 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.

Voice, Flute
Piano and Jazz Piano, Oboe
Harp, Clarinet
Harpsichord (by audition only), Bassoon
Organ (by audition only), Saxophone
Organ Improvisation (by audition only), French Horn
Violin, Trumpet
Viola, Trombone
Violoncello, Baritone Horn
Contrabass, Tuba
Classical Guitar, Percussion

Composition. A program of study dealing creatively with the problems of musical form. Prerequisite: consent of the instructor.

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 S/U basis.

The following are considered major ensembles: Chapel Choir, Concert Choir, Kantorei, Symphonic Band, Jazz Band, University Symphony Orchestra. All other ensembles listed here are considered minor ensembles.

All ensemble courses are available for graduate credit at the 500 level. Enrollment 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.

060, 560. Choirs.

Chapel Choir, Concert Choir, Kantorei, admission by audition only. Also Choral Society, audition not required.

062, 552. University Bands.

Symphonic Band, Jazz Band, admission by audition only.

064, 554. University Symphony Orchestra.

Admission by audition only.

065, 556. Music/Theatre Workshop.

Admission by audition only.

068, 558. Chamber Music.

Collegium Musicum, Brass Ensemble, Percussion Ensemble, Jazz Workshop, Jazz Combo, accompanying or other assigned chamber ensemble. Admission by approval of the Chair of the Department.

Philosophy

Professors Bachman, Klein (Chair); Assistant Professor Kennedy; Assistant Professors Geiman, Strand.

Courses in philosophy offer students the opportunity to examine the basic issues which arise in all fields of endeavor and also to explore the positions of the great thinkers of both Western and non-Western civilizations. These courses encourage students to reflect philosophically on those concepts which significantly shape human life because of the key role they play in language, thought, belief, and action. Reflection is philosophical if it is analytical, critical, and evaluative. The study of philosophy tends to develop and sharpen analytical and critical thinking generally, not only about philosophical topics, but also about other disciplines as well. Philosophy courses can also help educated Christians think critically about various issues raised by involvement in their religious communities.

A major in philosophy may lead to careers such as law, the ministry, and teaching, and enhances careers in medicine, business, education, writing, and public service.

Major. A minimum of 27 credit hours in philosophy constitutes a major. Courses must include Philosophy 150, 215, 225, and one course from each of the following: 300-355, 360-370, and 400-490. The remaining three courses should be selected in consultation with the a member of the Department, taking into account one's total academic program and professional plans. The Department recommends the Schedule of Study for those preparing for entrance into law school, seminary, or graduate study in philosophy. Majors who are preparing for graduate study in philosophy are advised to complete a minimum of 36 credit hours of philosophy. Recommended plans of study are available at the Departmental Office.

Minor. A minimum of 15 credit hours in philosophy constitutes a minor. Courses must include Philosophy 150, 215, and 225.

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

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

Prerequisites. Courses numbered under 300 are considered to be introductory courses and have no course prerequisites. Courses numbered 300 and above are considered to be upper level courses and have, as prerequisite, any one course numbered under 300, or sophomore standing in Christ College, or consent of the instructor. Majors and others planning to take 360-level courses and above should take Philosophy 150 and 225 before taking upper level courses.

General Education. Any course in philosophy will satisfy the General Education Philosophical and Historical Studies requirement, but students will usually be best served by choosing Philosophy 115, 125, or 150. From time to time certain philosophy courses are cross-listed with Level III Theology courses and thus may satisfy that requirement under the Theology number. Philosophy 260 will satisfy the non-Western or Third World Studies requirement. Any philosophy course numbered 300 or above will satisfy the Integrative Studies (University Course) requirement, but students will usually be best served by choosing a course from those numbered 300-355.

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.

115. Introduction to Philosophy: Fundamental Questions.

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.
Cr. 3. A philosophical introduction to moral issues which confront us in everyday life. When should the concerns of others inhibit my personal freedom? How much should I care about others? What are my responsibilities to myself? My family? the hungry of the world? What sort of person should I be? The course emphasizes the importance of being reflective about how to live one’s life.

150. Logic and Critical Thinking.
Cr. 3. An introduction to different strategies for constructing and evaluating arguments. Emphasis is placed on the development of skills needed to deal competently with arguments encountered in everyday life as well as on some of the more formal techniques of logical analysis.

215. 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.

225. Early Modern Philosophy.
Cr. 3. An introduction to major thinkers and themes of seventeenth and eighteenth century Europe: Descartes, Leibniz, Hobbes, Locke, and Hume. Emphasis will be placed upon the Rationalist and Empiricist traditions and their synthesis in Kant. Primary documents are read throughout.

250. Political Philosophy.
Cr. 3. (Also offered as Political Science 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.

260. 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 Non-Western/Third World General Education Requirement.

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.

305. Philosophy of Art.
Cr. 3. A study of theories of art and aesthetic experience. Readings from classical and contemporary sources. Reference is made to works of art accessible to the student through field trips, slides, performances and recordings. This course may be used to fulfill the Fine Arts/Fine Arts-Literature component of the General Education Requirements.

320. Philosophy of Science.
Cr. 3. A philosophical approach to the language, practices, and goals of the physical sciences. Special attention is given to the concepts, methods, and theories of the physical and biological sciences as they are used in the interpretation of science.

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. Course prerequisite can be satisfied by any Level II Theology course instead of a philosophy course.

341. Biomedical Ethics.
Cr. 3. (May also be offered as Theology 341.) A study of moral issues raised in healthcare and biological research (e.g., abortion, euthanasia, genetic engineering, and resource allocation). Attention is given both to ethical theory and to practical issues. Course prerequisite can be satisfied by any Level II Theology course instead of a philosophy course.

346. 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: Philosophy 150 or its equivalent.

355. Problems in Political Philosophy.
(May also be offered as Political Science 355.) Cr. 3. The study of one or more specific problems or philosophers in political philosophy. Prerequisites: Philosophy 250 or Political Science 250 or the consent of the instructor.

360. Existentialism and Contemporary Continental Philosophy.
Cr. 3. A study of the problems and trends that have shaped present-day European philosophy. Major figures include Husserl, Heidegger, Sartre, Merleau-Ponty, and Foucault. Primary documents are read throughout. Prerequisite: Philosophy 225 or the consent of the instructor.

Cr. 3. A sampling of representative contemporary British and American figures in the analytic tradition of philosophy, such as Moore, Russell, Wittgenstein, Ayer, Strawson, Quine, Davidson, and Rorty. Primary documents are read throughout. Prerequisite: Philosophy 225 or the consent of the instructor.
Physical Education

Physical Education

Professor Steinbrecher; Associate Professors Amundsen, Stieger (Chair); Part-Time Assistant Professor Criewell; Part-Time Instructors Daugherty, Moore, Seibert.

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 life-long 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, sports writing and broadcasting, and sports management. Students can select courses from the departmental curriculum to reflect these new areas.

**Major.** A minimum of 28 credit hours in physical education constitutes a major. Courses must include Physical Education 150, 190, 230, 235, 240, 360, 370, and 440. In addition, students must complete Biology 151 and 152, Chemistry 111, Home Economics 214 and 265, Psychology 101, and 103. A minimum of 18 credit hours in physical education constitutes a minor. Courses must include Physical Education 150, 190, 230, and 370.

**Teaching Programs.** Students who plan to teach physical education in elementary or secondary schools with a major or minor in Physical Education should consult the Chair of the Department and the Education Department for specific requirements.

**Athletic Training Concentration.** A minimum of 42 credit hours in physical education and athletic training is required. Courses must include Physical Education 150, 190, 230, 235, 310, 335, 340, 355, 360, 370, 410, 435, 440, 455, and 486 (3 credit hours). Either the Senior Project or the Internship must be an off-campus experience. In addition, student must complete Communication 101 and 265, and the 21-credit Liberal Arts Business Minor.

**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 concentration and Sports Management concentration are noted on a student's transcript as Physical Education: Athletic Training or Physical Education: Sports Management.

**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 advisor before each registration period.

**Basic Courses in Physical Education.** All students must take one credit hour of Fitness Principles and Activities courses 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 Physical Education 100-149 may be counted toward any degree.

**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.

**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.

**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.

**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.

**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.

**106-149. 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.

**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, or sports management as fields of study.

**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 Lifeguard Certificate (2 Cr.: Minir or Summer Session only). Prerequisite: Physical Education 160 or approval of instructor.

**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: Physical Education 160 or approval of instructor.

**180. Officiating in Sports.**
Cr. 1. May be offered as a seven weeks 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.

**190. First Aid, Health and Safety.**
Cr. 2. (Also offered as Home Economics 190.) Seven weeks course. A study of the prevention and emergency care of sudden illness and injury, which leads to American Red Cross First Aid and Community CPR. Prerequisite: Physical Education 190.

**220. Coaching Theory.**
Cr. 1-2. Seven weeks course. A study of the methods and principles of coaching interscholastic and intercollegiate sports. Because the course is divided into sections, each dealing with a specific sport, no section may be repeated for credit.

**230. Seminar in Health.**
Cr. 3. A study of the human body in health and disease. Included are discussions of major American health concerns, their incidence and prevention.

**233. Management and Development of Facilities.**
Cr. 3. The course explores planning, developing, and managing sports facilities. Students examine existing facilities and plan for the development and management of new sports facilities. Prerequisite: Physical Education 233 or approval of the Chair of the Department.

**240. Psychological Perspectives in Physical Education.**
Cr. 3. A study of the psychological, historical organizational and administrative aspects of physical education.
335. Advanced Athletic Training.

Cr. 3. An investigation and application of advanced athletic training, emphasizing the prevention and evaluation of athletic injuries. Field trip to a sports medicine/physical therapy clinic. An additional 5-10 hours per week will be required in the Athletic Training facility. Prerequisite: Physical Education 235 and approval of the instructor.


2+2, Cr. 3. A study of the place of movement in the life of the child and the ways in which various types of activity can affect the development of the child.

343. Sport Management, Promotions and Fund Raising.

Cr. 3. A study of the roles of marketing, promotions, and fund raising in the sports enterprise. Students are involved in planning and organizing programs in these areas. Students also receive experience in implementing a group project on a community setting. Prerequisite: Physical Education 233 or approval of the Chair of the Department.

350. Methods of Physical Education.

1+2, Cr. 2. Analysis and application of teaching techniques and organizational methods for the instruction of physical education with emphasis on indoor/outdoor activities and team/individual sports. Meets three times a week.

355. Therapeutic Modalities/Exercise.

3+2, Cr. 4. The study and application of the use of heat, cold, electricity and selected modalities and the principles and practices of therapeutic exercise. Field trip to a sports medicine/physical therapy clinic. An additional 2 hours per week will be required in a sports medicine/physical therapy clinic. Prerequisite: Physical Education 235 and approval of the instructor.

440. Physiology of Exercise.

2+2, Cr. 3. An investigation of the physiological response of the human body to exercise and training, with laboratory experience. Prerequisite: Biology 152.

459. Administration of Athletic Training Programs.

Cr. 2. An in-depth study of various problems, issues and responsibilities affecting the athletic training in their role as administrators. Prerequisite: Physical Education 235 and 335, junior standing or approval of the instructor.

473. Sports Management Senior Project.

Cr. 3. A personal investigation of a specific area in the field of Sports Management. Students utilize research techniques common to the field and culminate the experience with a written report. Prerequisites: senior standing and approval of the Chair of the Department.

486. Internship in Physical Education or Athletics.

Cr. 1-3. An opportunity for students to gain practical experience under careful supervision by working in university programs or offices, public agencies or businesses, sport clubs, sports medicine clinics, community or adult fitness programs, high schools, media and communications, programs for the elderly, athletic administration, intramural and facility management or other appropriate work experiences. Prerequisites: evaluation of athletic injuries. Field trip to a sports medicine/physical therapy clinic. A personal investigation of a specific area in the field of Sports Management. Students utilize research techniques common to the field and culminate the experience with a written report. Prerequisites: senior standing and approval of the Chair of the Department.

489. The Teaching of Physical Education.

Cr. 2. (See Education 489) A study of the methods of teaching physical education in the elementary and secondary schools. This course may not be counted towards a major or minor in Physical Education. Prerequisite: admission to Supervised Teaching.

490. Special Topics in Physical Education.

Cr. 1-3. An open-top course which examines a variety of topics pertaining to the needs of the physical educator, e.g., motor learning, curriculum construction, advanced athletic conditioning, current issues in physical education.

495. Independent Group Study.

Cr. 1-3. A personal investigation of a research-oriented concern pertaining to physical education. This course may be repeated for a maximum of six credit hours. Prerequisite: approval of the instructor and consent of the Chair of the Department.

497. Honors Work in Physical Education.

Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Physical Education.

Cr. 3. See Honors Work, page 47.

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Physics and Astronomy

Professors Koetke (Chair), Manweiler; Associate Professor Hrivals; Assistant Professors Stanislaus, Vogler, Zygmunth.

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 predictive 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 in physics, astronomy or space science, or immediate employment after graduation. Those students preparing for professional careers in engineering, secondary education, law, medicine, mathematics, computer science or business may find an undergraduate major or minor in physics to be supportive and a sound intellectual preparation. The program emphasizes both the fundamental laws of nature and the application of such laws to challenging problems confronting society today. Students pursue research projects under the direction of members of the faculty in such diverse subjects as nuclear and reactor physics, solar energy, astronomy and astrophysics.

The Department is well equipped, having a subcritical nuclear reactor, a 300 KeV particle accelerator, a planetarium and an astronomical observatory, and extensive computer resources. 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. 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, Physics 481-483 or 497 may be substituted for Physics 445. For further information, refer to Cooperative Education, College of Arts and Sciences, page 48.

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 Physics 243, 245, 250, 281, 310, 345, 371, 445 and 499.

Three emphases within the physics major have been designed to meet students' educational and career goals: emphasis in (1) Fundamental Physics—for students primarily interested in pursuing a career in physics, applied physics, or physics education, and who may anticipate graduate study in physics; (2) Computational Physics—for students interested in physics and computer applications to physics problems. This emphasis includes courses in computer science and computer engineering and is most useful to students who will seek employment after graduation. (3) Astronomy and Space Science—for students interested in careers in astronomy or related fields and who might pursue graduate studies in astronomy or space science. This emphasis includes Astronomy 221, 252, 390, and 445, the latter substituted for Physics 445. The departmental advisers are available to assist students in selecting the most appropriate physics major emphasis and the courses which apply within the emphasis.

One year of chemistry is strongly recommended. Students preparing for graduate work should also take Physics 360, 372, 381, 421, 422, 430 and 440 as well as Mathematics 340. Students preparing for graduate work in physical science may substitute for Physics 445. For further information, refer to Cooperative Education, page 48.

Minor: A minimum of 16 credit hours in physics and astronomy constitutes a minor. Physics 243 and 245 must be included.

Degrees. Completion of 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.

Approval of Schedules. All students taking a minor or major in physics and all students planning to teach physics must have their schedules approved by the department adviser.
101. Astronomy. 3+0, Cr. 3. A study of the history of man's view of the universe including our contemporary understanding of the physical universe. The topics 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 structure and 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 mathematical skills are required. This course, along with ASTR 101L, may be used to fulfill the Natural Science component of the General Education Requirements.

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 or concurrent registration: Astronomy 101 or 252.

221. Observational Astronomy. 0+3, Cr. 1. Practical observational experience using the 16 inch reflecting telescope and other instrumentation including photographic cameras, photopolarimeter, spectrophotograph, and CCD camera and computer. Prerequisite: Astronomy 101 and 101L or 252 or consent of the instructor.

252. Introduction to Astrophysics. 3+0, Cr. 3. A study of modern astronomy and the physical principles involved. Topics to be studied are similar to those in Astronomy 101. 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: Mathematics 131 or 151. Not open to students who have taken Astronomy 101.

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.

448. Experimental Problems in Astronomy. 0+3, Cr. 1-2. This course is designed to supplement Physics 445, but with a specific focus on an experimental problem in astronomy. See Physics 445 for details. Prerequisites: Astronomy 221 and 252.

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 include laws of motion, energy, conservation laws, heat and sound. Not open to students who have taken Physics 141. This course along with Physics 111L may be used in fulfillment of the Natural Science component of the General Education Requirements.

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 Physics 111. Emphasis is placed on experimental learning and on the development of laboratory skills in physical science. Prerequisite or concurrent registration: Physics 111. Not open to students who have taken Physics 141L.

112. Essentials of Physics. 3+0, Cr. 3. This course is a continuation of Physics 111. Specific topics include the study of electricity and magnetism, wave phenomena, optics, relativity, atomic and nuclear physics. Not open to students who have taken Physics 142. Prerequisites: Physics 111 and 111L, or consent of the instructor. This course along with Physics 112L may be used in fulfillment of the Natural Science component of the General Education Requirements.

112L. Essentials of Physics Laboratory. 0+3, Cr. 1. Laboratory experiments test and illustrate fundamental physics concepts and laws closely related to those studied in Physics 112. Emphasis is placed on experimental learning and on the continued development of laboratory skills in physical science. Prerequisite or concurrent registration: Physics 112. Not open to students who have taken Physics 142L.

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 psychological 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.

141. Principles of Physics: Mechanics and Heat. 3+0, Cr. 3. A study of classical mechanics, including static and dynamic systems, and of thermal physics for students of physics, engineering, and chemistry and for students in pre-medical programs. Applications of problems are made as appropriate. Not open to students who have taken Physics 111. This course along with Physics 141L may be used in fulfillment of the Natural Science component of the General Education Requirements. Prerequisite or concurrent registration: Mathematics 131 or 151.

141L. Experimental Physics I. 0+3, Cr. 1. Laboratory experiments test and illustrate fundamental physics concepts and laws closely related to those studied in Physics 141. Emphasis is placed on the development of laboratory skills in physics. Prerequisite or concurrent registration: Physics 141. Not open to students who have taken Physics 111L.

142. Principles of Physics: Electricity, Magnetism and Waves. 3+0, Cr. 3. A continuation of Physics 141 which treats electricity, magnetism, wave motion and optics. Prerequisite: Physics 141 and 141L or advanced placement by permission of the Chair of the Department. Not open to students who have taken Physics 112. This course along with Physics 142L may be used in fulfillment of the Natural Science component of the General Education Requirements.

142L. Experimental Physics II. 0+3, Cr. 1. Laboratory experiments test and illustrate fundamental physics concepts and laws closely related to those studied in Physics 142. Emphasis is placed on the development of laboratory skills in physics. Prerequisite or concurrent registration: Physics 142. Not open to students who have taken Physics 112L.

223. Waves and Particles. Cr. 4. An introduction to waves and modern physics. Topics include oscillations, waves, sound, light (geometrical and physical optics), relativity, quantum mechanics, atomic and solid state physics, nuclear physics, elementary particles.

243. Principles of Physics: Atoms and Nuclei. Cr. 3. An introduction to the special theory of relativity, physics of the atom, Schroedinger wave mechanics, physics of condensed matter, physics of the nucleus including radioactivity, and elementary particles. Prerequisites: Physics 142 and Mathematics 152 (may be taken concurrently).

245. Experimental Physics III. 0+3, Cr. 1. Selected experiments include both the measurement of fundamental constants such as the speed of light, Planck's constant, the gravitational coupling constant, as well as investigations of fundamental physical processes and techniques such as black body radiation, radioactive decay, and x-ray diffraction. The further development of laboratory skills and methods of data analysis is emphasized, using advanced computer analysis and data acquisition techniques. Prerequisite: Physics 142 and 142L. Normally offered in fall semesters.

250. Mechanics. Cr. 3. The classical mechanics of particles, systems of particles and rigid bodies, utilizing analytical techniques of vectors and differential and integral calculus. Among the topics included are Newton's laws of motion in one and three dimensions, conservation laws, harmonic oscillation, central force motion, scattering and an introduction to rigid body motion. Prerequisites: Physics 142 and Mathematics 233 or 253 (may be taken concurrently).

281(formerly 260). Linear Circuit Theory. Cr. 3. (Also offered as Electrical And Computer Engineering 261) A study of the fundamental methods and theorems of electric circuit analysis with emphasis on analytical and computer-aided methods. AC and DC analysis, transient and complete response. Instantaneous and average power. Prerequisites: Mathematics 131 or 151; Physics 142.

281. Electricity and Electronics. 2.5+1.5, Cr. 3. (Also offered as Electrical and Computer Engineering 281) A study of fundamental methods of electric circuit analysis with emphasis on computer-aided analysis. AC and DC circuits, operational amplifiers. Laboratory exercises emphasize measurement techniques. Prerequisite: Physics 142 and 142L.

310. Data Reduction and Error Analysis. Cr. 1. The study and application of various techniques employed in the reduction and analysis of laboratory data. Included in the course are statistical probability distributions, regression, tests of goodness of fit, data smoothing and the methods for determining the errors on measured and fitted parameters. Extensive use of the computer is expected. Students are required to program in BASIC and FORTRAN. Prerequisites: Physics 245 and Mathematics 253.

340. Electronics. Cr. 3. (Also offered as Electrical and Computer Engineering 340) An introduction to semiconductor theory and the application of diodes, transistors and integrated circuits in the design of amplifiers and multiple transistor circuits. Prerequisite: Physics 281.

345. Experimental Physics IV. 0+3, Cr. 1. Experiments in radiation detection and analysis using modern modular electronics. Prerequisites: Physics 243, 245, and 310 and Mathematics 233 or 253.

360. Thermal Physics. Cr. 3. A study of the basic principles of thermodynamics, kinetic theory and elementary statistical mechanics. Among the topics included are equations of state, laws of thermodynamics, reversibility, entropy, kinetic theory, transport phenomena and statistical description of systems of particles. Normally offered in the spring semester of even numbered years. Prerequisite: Physics 243.

371. Electromagnetic Fields. Cr. 3. A study of electric and magnetic fields, their sources and interactions in vacuum and in dielectric and magnetic media. Prerequisites: Physics 250 and Mathematics 234 or 350.
420. 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 Schrodinger equation, and selected topics such as the harmonic oscillator, orbital and spin angular momentum, the hydrogen atom, identical particles, elementary matrix mechanics, and collision theory. Normally offered in the fall semester of odd numbered years. Prerequisites: Physics 243 and Mathematics 250 (both of which may be taken concurrently), or permission of the instructor.

421. Quantum Mechanics II.  
Cr. 3. A continuation of Physics 421, with further development and application of quantum theory. Topics may include time independent and time dependent problems, multi-electron atoms, and applications to 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. Prerequisites: Physics 421 or the permission of the instructor.

430. Nuclear Physics.  
3+3. Cr. 3. Nuclear physics for students with physics or engineering background. Topics include nuclear models, nuclear reactions, alpha, beta, and gamma radioactivity, and fission physics. Prerequisite: Physics 243. Normally offered in the spring semester of odd numbered years.

430L. Nuclear Physics Laboratory.  
0+3. Cr. 1. An advanced laboratory to study nuclear reactions, radioactivity, and fission. Laboratory will include the use of the 300 kev particle accelerator and the subcritical fission assembly. Prerequisites: Physics 245 and 310; corequisite: Physics 430. Normally offered in the spring semester of odd 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 include crystal structure, diffraction, the reciprocal lattice, chemical bonding in molecules and solids, lattice dynamics, phonons, thermal properties, the free electron gas, electrons in a periodic lattice, band structure, semiconductors, magnetic and optical properties, and superconductivity. Normally offered in the spring semester of even numbered years. Prerequisites: Physics 243 and 250.

445. Experimental Physics V.  
0+3. Cr. 1-2. Each student undertakes an experimental research problem. A written report and an oral presentation at the Physics Colloquium are required. Students research problems must be approved by the Department. Prerequisite: consent of the Chair of the Department. Two credits are required for the physics major. May be taken as two credits in one semester or as one credit in each of two consecutive semesters.

448. Cooperative Education in Physics I.  
Cr. 0.5-3. Experience in basic or applied physics with a cooperating employer. Mid-term and final written reports required. Prerequisite: written approval of the Chair of the Department. S/U grade.

448S. Cooperative Education in Physics III.  
Cr. 0.5-3. Continuation of Physics 448. Mid-term and final written reports required. Prerequisites: Physics 448 and approval of the Chair of the Department. S/U grade. May be repeated beyond 483 for additional credit.

489. The Teaching of Natural Sciences.  
Cr. 2. (See Education 489.) A study of the methods of teaching natural sciences in the secondary schools. This course may not be counted toward a major or minor in Physics. Prerequisite: admission to Supervised Teaching.

492. Research or Reading in Physics.  
Cr. 1-3. Research or reading in physics, under the supervision of a faculty member. Prerequisite: consent of the Chair of the Department.

497. Honors Work in Physics.  
Cr. 3. See Honors Work, page 47.

498. Honors candidacy in Physics.  
Cr. 3. See Honors Work, page 47.

499. Physics Colloquium.  
Cr. 0. All physics majors are expected to register for this course. S/U grade.

Political Science

Professors Bans (Chair), Balkema, Trost; Assistant Professor Lin.

This Department offers courses which provide the student with an understanding of the basic concepts, methods of study and traditions of political science. In consultation with the Chair, the student may wish to concentrate in areas within the discipline such as executive processes, judicial behavior, comparative politics and the like. A major in political science may lead to such careers as law, government service, politics and policy analysis.

Student excellence is recognized through membership in Pi Sigma Alpha, a national political science honorary organization. The Beta Nu chapter of Pi Sigma Alpha was installed in 1963.

Major. A minimum of 30 credit hours in political science constitutes a major. Courses must include Political Science 120, 220, 130 or 230, 240, and 493.

Minor. A minimum of 18 credit hours in political science constitutes a minor. Political Science 120, 220, and 130 or 230 must be included.

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

Approval of Schedules. Students taking a major or minor in political science must have their schedules approved by the appropriate adviser at the beginning of each semester.

Special Programs. For information concerning the Luther College Washington Consortium Semester and the Washington Semester see page 12. For information concerning the Semester on the United Nations see page 12.

110. Introduction to Politics.  
Cr. 3. Designed as a general education course in social analysis, an introduction to the theories, concepts and issues of politics with applications to the American political system. May be used in partial fulfillment of the Social Analysis component of the General Education Requirements.

120. The Government of the United States.*  
Cr. 3. An introduction to the American national government, with special emphasis on the basic structure, functions and policies of the system. May be used in partial fulfillment of the Social Analysis component of the General Education Requirements.

*Credit for Political Science 120 may be earned through the College Level Examination Program subject examination in American Government.
325. Problems in American Politics. Cr. 3. An intensive study of topics in the process, policies and functions of the American political system (e.g., political parties). Prerequisite: Political Science 120 or consent of the Chair of the Department.

326. 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 relations with the public and coordinate branches of government. Prerequisites: Political Science 120 or consent of the Chair of the Department.

327. Congress. Cr. 3. A study of the legislative processes in which emphasis is placed on the Congress of the United States and its policy-determining and directing roles. Prerequisite: Political Science 120 or the consent of the Chair of the Department. (This course normally includes a field trip.)

330. 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, Latin America and the Far East. Prerequisites: Political Science 120 or consent of the Chair of the Department.

335. Politics of Developing States. Cr. 3. A study of the governmental 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. Prerequisites: Political Science 120 or consent of the Chair of the Department.

340. Constitutional Law I. Cr. 3. An analysis of Supreme Court decisions relating to judicial review, the power of national and state governments, federalism, the separation of powers, President and Congressional power and related topics. Prerequisite: Political Science 120 or consent of the instructor.

341. Constitutional Law II. Cr. 3. A continuation of Political Science 340 focusing on Supreme Court decisions relating to the Bill of Rights, equal protection, due process and related topics. Prerequisite: Political Science 120 or consent of the instructor. Political Science 340 is not required.

345. Problems in the Judicial Process. Cr. 3. An examination of law and courts as part of the political process with specific emphasis on factors which influence judicial decisions and the impact of court decisions. Prerequisite: Political Science 120 or consent of the Chair of the Department.

355. Problems in Political Philosophy. Cr. 3. (May also be counted as Philosophy 355.) The study of one or more specific problems or philosophers in modern political philosophy. Prerequisites: Political Science 250 or consent of the instructor.

360. Public Administration. Cr. 3. An introduction to the basic principles of administrative organization and management in government. Prerequisites: Political Science 120 and junior standing.

361. Public Policy. Cr. 3. An introduction to the study of the public policy processes, focusing on the politics and science of policy formulation, execution and evaluation.

380. Problems in International Relations. Cr. 3. An intensive study of topics in international relations (e.g., international organizations). Prerequisite: Political Science 230 or consent of the Chair of the Department.

381. Cooperative Education in Political Science I. Cr. 0.5-3. Professional work experience which clearly augments the student's classroom education. Written report required. Prerequisites: Political Science 120 and approval of the Chair of the Department.

382-383. Cooperative Education in Political Science II. Cr. 0.5-3. Continuation of Political Science 381. Prerequisites: Political Science 381 and approval of the Chair of the Department. SU grade. May be repeated beyond 383 for additional credit.

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 semesters. Prerequisite: consent of the Chair of the Department.

489. The Teaching of Social Studies. Cr. 2. (See Education 489.) A study in the methods of teaching social studies in secondary schools. Prerequisite: admission to Supervised Teaching. This course may not be counted toward a major or minor in Political Science.

490. Seminar in Political Science. Cr. 2-3. These are full or half semester courses covering a variety of subject areas, with subtitles and content dependent on instructor choice and student interest. They are of two types, labelled accordingly: (a) reading and discussion seminars or (b) seminars with major papers.

493. Senior Seminar in Political Science. Cr. 3. This seminar is 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.

498. Independent Study in Political Science. Cr. 1-3. Individual research on a specific problem in one of the fields of government under the supervision of a member of the political science staff. A written report is required. Prerequisites: major with junior or senior standing and consent of the Chair of the Department.


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Psychology

Professors Arkkelin, Rowland (Chair); Associate Professor Nelson; Assistant Professors Esper, S. Hughes, O'Connor, Sobocinski.

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.

Student Organizations. Students interested in participating in social activities with the psychology students and faculty are invited to join the psychology club.

Psi Chi, the national honor society, was installed at Valparaiso University in 1950. Students who have completed at least nine credit hours in psychology, who have declared a psychology major or minor, who have completed at least three semesters of undergraduate study, and who have demonstrated superior scholastic achievement and evidence of professional leadership potential may be selected to membership in the Valparaiso Chapter of Psi Chi.

Major. A minimum of 27 credit hours in psychology constitutes a major for the Bachelor of Science degree. In addition to meeting all of the major requirements for the B.A. degree, B.S. candidates must complete a second laboratory course in psychology (one of which may be Psychology 102), and Biology 151 or higher (taken with a laboratory) and Mathematics 122 or higher. Special Topics in Psychology (300) may be used to fulfill requirements for either degree with the consent of the Chair of the Department.

Minor. A minimum of five courses with a total of at least 15 credit hours in psychology constitutes a minor. Courses for the minor must include Psychology (101 or 102), 201, and one course, with or without laboratory, chosen from 245, 250, 345, 350, 365, 465, or 470.

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.

101. General Psychology. Cr. 3. An introduction to the general field of psychology with special emphasis upon the scientific study of behavior. Not open to students who have taken Psychology 102.

102. General Experimental Psychology. Cr. 3-4. Cr. 4. An introduction to the general field of psychology with an emphasis on experimental procedures and data analysis techniques. Students have the opportunity to study psychological phenomena directly through various laboratory experiences. May be used in partial fulfillment of the Natural Science component of the General Education Requirements. Not open to students who have taken Psychology 101.

Note: Psychology 101 or 102 is a prerequisite for all other psychology courses. Psychology 201 is a prerequisite for Psychology 202. Psychology 202 is a prerequisite for all laboratories in psychology (excluding Psychology 102) and for Psychology 495. Psychology 245, 250, 345, or 355, when taken with the associated laboratory, may be used in partial fulfillment of the Natural Science component of the General Education Requirements.

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*Credit for Psychology 101 may be earned through the College Level Examination Program subject examination in Introductory Psychology.*
Psychology

120. Human Growth and Development.*
Cr. 3. A life-span approach to human growth and development involving maturational, cognitive and behavioral changes with age. Major empirical findings are reviewed with attention to current theoretical, methodological and practical issues. This course may not be counted toward a major in psychology. Not open to students with credit for Psychology 130.

125. Social Psychology.
Cr. 3. An interdisciplinary approach to the study of social influences on the psychological functioning and behavior of the individual.

201. Statistical Methods.
Cr. 3. An introduction to the fundamentals of descriptive and inferential statistics for the behavioral sciences.

Cr. 3. The basic principles and methods of research in psychology will be covered. While several methods will be discussed, the course will focus on The Experimental Methods and the skills necessary to design, carry out, interpret and write up an experiment with the use of this method. Prerequisites: Psychology 101 or 102 and 201.

235. Abnormal Psychology.
Cr. 3. An analysis of psychopathology within the framework of theory and research.

245. Physiological Psychology.
Cr. 3. A study of the structure and function of the nervous system in relation to motivation, emotion and cognitive function.

246. Laboratory in Physiological Psychology.
0+2.5, Cr. 1. Laboratory to be taken in conjunction with Psychology 245. Prerequisite: Psychology 201 and 202 or consent of the instructor.

250. Learning and Behavior.
Cr. 3. Concepts of learning derived from research with infra-human subjects and the implications for understanding human behavior. Such behavioral patterns are contrasted with those which represent specific adaptations that have evolved over generations.

251. Laboratory in Learning and Behavior.
0+2.5, Cr. 1. Laboratory to be taken in conjunction with Psychology 250. Prerequisite: Psychology 201 and 202 or consent of the instructor.

265. Industrial and Organizational Psychology.
Cr. 3. This course deals with applications of psychological principles, techniques and theories to the work environment. Special emphasis is placed on the issues of leadership, motivation, communication and group problem solving.

Cr. 3. Study of the maturational, cognitive, social and behavioral changes associated with the development of the child through adolescence. Not open to students with credit for Psychology 230.

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.

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.

345. Sensation and Perception.
Cr. 3. An introduction to the study of sensory and perceptual phenomena and the physiological mechanisms that underlie them.

346. Laboratory in Sensation and Perception.
0+2.5, Cr. 1. Laboratory to be taken in conjunction with Psychology 345. Prerequisite: Psychology 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.

355. Environmental Psychology.
Cr. 3. The study of interrelationships between the physical environment and human behavior. Topics include environmental perception, psychological effects of air and noise pollution, personal space, crowding, urbanization, architectural design, and energy consumption.

356. Laboratory in Environmental Psychology.
0+2.5, Cr. 1. Laboratory to be taken in conjunction with Psychology 355. Prerequisite: Psychology 201 and 202 or consent of the instructor.

360/560. The Exceptional Child.
Cr. 3. Analysis of the impact of various perceptual, cognitive, physical and social handicaps upon the child. Attention is also given to the study of the gifted, creative child. Prerequisite: Psychology 330.

390/590. Special Topics in Psychology.
Cr. 1-3. Selected topics based on the special interest areas of students and faculty. These topics have included aging, sex differences, theories and issues, drugs and behavior, community psychology, and altered states of consciousness. Topics and descriptions are announced in advance.

Note: The following courses are restricted to junior and senior level students.

461/561. Introduction to Counseling.
Cr. 3. A review of contemporary counseling theories and processes as they are applied to various problem areas.

Cr. 3. The application of learning principles to the modification of human behavior. Discussions include ethical issues and current research relating to behavior management techniques as utilized in self control, education, institutions, business, social, personal and family interventions. Prerequisite: six credit hours of Psychology or consent of the instructor.

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: Psychology 201.

485. Psychology Practicum; Field Experience.
Cr. 3-3. Emphasis on, but not limited to, functions of social-service and mental-health agencies. Each student typically spends 4-10 hours each week in a 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: psychology major and consent of the Chair of the Department. No more than six credit hours of 496 and/or 497 may be applied to major requirements.

497. Honors Work in Psychology.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Psychology.
Cr. 3. See Honors Work, page 47.

499. Psychology Colloquium.
Cr. 1. Faculty and student presentations of research projects, professional interests, and current topics related to psychology. Student participation is expected. Prerequisite: junior or senior major. May be repeated once for credit. S/U grade.

*Credit for Psychology 120 may be earned through the College Level Examination Program subject examination in Human Growth and Development.
Social Work

Associate Professor Walton (Chair); Assistant Professor Merchant.

Social work is the profession which serves individuals, families and communities who seek preventative and rehabilitative interventions for an improved quality of life. Focused on social and emotional development, the field of social work is national and international in scope. The profession is social justice and action oriented.

The primary function of this undergraduate program is to prepare the liberal arts student for entry level positions in social work practice settings. The secondary function is preparation for advanced standing in graduate social work education. The department and the professional community provide an 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 and the Lutheran Deaconess Program. Plan 1.

The Student Social Work Organization offers a unique opportunity to explore major social issues and to represent student interests at departmental meetings.

Faculty, full-time and part-time, are active in community services, the Council on Social Work Education, and the National Association of Social Workers. Field instructors are selected by faculty.

Major. A minimum of 40 credit hours in social work constitutes a major. Courses must include Social Work 151, 210, 220, 240, 330, 340, 365, 410, 455, 465, and 493.

Also required are Biology 125, Psychology (101 or 102) and 201, Sociology 110 and 220, one course in political science and one of the following courses: Economics 221 or 222 or Geography 201.

Minor. A minimum of 15 credit hours in social work constitutes a minor. These credits may be selected from Social Work 151, 210, 220, 240, 330, and 390.

Admission. A student's formal admission into the Department as a major requires approval by the Department following the successful completion of Social Work 151 and the completion of admissions procedures. Each social work major selects a faculty adviser. A manual is available to all majors as a guide to departmental standards.

Degree. The Department of Social Work is fully accredited by the Council on Social Work Education. It offers an undergraduate professional curriculum. The completion of this curriculum and the requirements of the College of Arts and Sciences, including its General Education Requirements, leads to the Bachelor of Social Work degree.

Approval of Schedules. All students who major in social work must have their schedules approved by the Chair of the Department or assigned adviser at the beginning of each semester.

151. Introduction to the Profession of Social Work.

Cr. 3. The major objective of this course is to inform the student of the basic issues, concepts and systems encountered by the social work practitioner in the helping process in the community. This course is required for all social work majors. It can be of great benefit to students pursuing careers in fields such as corrections, ministry, law, nursing, medicine and church work. Community volunteer work and observational experiences are required.


Cr. 3. The major focus of the course includes a historical survey and review of social welfare policies and programs. A descriptive analysis is made of various private, voluntary and governmental welfare programs and agencies. Values, attitudes, political and economic forces are explored in viewing the American response to the needs of welfare consumption. Prerequisite: Social Work 151 (may be taken concurrently by juniors and seniors) or consent of the Chair of the Department.

220. Human Behavior and Social Environment.

Cr. 3. This course explores the human developmental life cycle and its interplay with social values and community functioning. Theoretical approaches to human development and societal influences are critically examined. Prerequisite: Social Work 151 or consent of the Chair of the Department.

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. Prerequisites: Social Work 151, 210, 220.


Cr. 3. This course offers a study of the social needs of American people of color in relation to their human rights. Patterns of human development and analysis of social change provide the framework for study of minority rights and lifestyles. This material prepares the student for comprehension and appreciation of current minority issues. Prerequisite: junior standing.

340. Professional Intervention and Human Services.

3+Cr. 4. A course that introduces the student to human systems theory (individual, group, community) and to the variety of social work interventions. A community field experience and classroom laboratory are required. Prerequisites: Social Work 151, 210, 220 and 240.

365. Introduction to Methods of Social Research.

Cr. 3. This course is an introductory overview of the methods of scientific inquiry in the social sciences, particularly social work. Major topics to be covered are problem formulation, research design, measurement, data collection, analysis and interpretation and reporting results. Prerequisite: Social Work 151, 210, 220, 240 and Psychology 201.


Cr. 2-3. A study of selected topics of contemporary concern for the social worker, such as adulthood, clinical methods and techniques for helping professions, housing, ethics, substance abuse, juvenile delinquency, poverty, Listings are announced. Prerequisite: junior standing or consent of the Chair of the Department.


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.

395. Independent Study.

Cr. 2-3. Prerequisite: junior standing and consent of the Chair of the Department.


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 housing, income maintenance and health care services. Prerequisites: senior standing, consent of the Chair of the Department, Social Work 151, 210, 220, 240, 330, 385.

455. Social Work Practice I.

3+Cr. 7. The generic social methods and field instruction course is designed to establish a common base for direct service to people/individuals, family, small group, community/and institutional segments of society. The central theme is that the problems with which the social worker is involved dictate particular social work intervention. The emphasis is on the integration of theories, principles, skills and processes of the various work methods with clients. A professionally directed field practicum is offered each semester. The student works each Tuesday and Thursday in a community social service agency. Prerequisites: senior standing and all previously numbered foundation courses.

456. Social Work Practice II.

3+Cr. 7. Continuation course with primary focus on ethics. Field work is done each Tuesday and Thursday. Prerequisite: Social Work 455.


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.


Cr. 3. See Honors Work, page 47.


Cr. 3. See Honors Work, page 47.
Sociology

**Sociology**

**Associate Professor Kenyon, Soderberg, P. Ventura (Chair); Assistant Professors Byers.**

The Department of Sociology encompasses the disciplines of sociology, anthropology, and criminology, 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 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 human 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 provides for a range of intellectual, professional, and occupational interests by offering concentrations in sociology, criminology, and anthropology.

**International Honor Societies.** The department encourages qualifying 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 department, along with other social science disciplines at Valparaiso University, supports Pi Gamma Mu, the international honor society in social science.

**The Common Core.** (18 credit hours) All students who major in the department are required to enroll in the following courses which comprise the common core: Sociology 110, (245 or 250), 310, 320, one of (327, 345, or 347), and 493.

**The Concentration in Sociology.** Intended for students who are looking for an understanding of society and social behavior, the sociology concentration can lead to such careers as administration in a variety of community, government and social service agencies, market research, or other vocations that require an understanding of the dynamics of human relationships in a multi-cultural society. The concentration also strives to prepare students for graduate study in sociology.

This concentration requires a minimum of 30 credit hours. In addition to the core courses, students must enroll in Sociology (150 or 160), (220 or 290), (250 or 290), and 390. Students who elect a 40 credit major may take no more than 3 additional credits from Level I courses, and no more than 3 additional credits from Level II courses.

A course in Statistics (Psychology 201 or Mathematics 240) is recommended. Students planning to attend graduate school should also consider elective courses in computer science. Students who seek careers involving agency administration should consider the Liberal Arts Business Minor (page 189).

Students planning to enter careers directly upon graduation are advised to arrange internships or cooperative education courses. These are offered each semester (see Cooperative Education, College of Arts and Sciences, page 48).

**The Concentration in Anthropology.** Anthropology seeks to develop a broad understanding of the human experience across space and time. Through a comparative study of human groups around the world in various time periods, students are brought to an awareness of universals shared by all humans, as well as the variations among us. Students who are interested in a comparative approach to understanding about themselves, who hope to work or travel in an international setting, or who are interested in anthropological, archeological, or museum study at the graduate level, should select the concentration in anthropology.

The concentration in anthropology requires a minimum of 30 credit hours. In addition to the common core, students are required to enroll in Sociology 150, 230, 292, and 392.

Students also may decide to develop individualized minors if they intend to work in specialized areas such as physical anthropology or New World archeology.

**The Concentration in Criminology.** This concentration is intended for students who plan to prepare for a career in law or to seek employment in the criminal justice system (e.g., law enforcement, courts, or corrections). The concentration consists of 33 credit hours in sociology. In addition to the core courses required of all majors, students in the criminology concentration are required to enroll in Sociology 130, (260 or 269) and one of (350, 360 or 445), and 396. A second internship should be considered.

Students who plan to attend law school, or who are interested in justice agency administration, are strongly encouraged to complete degree requirements by adding an individualized minor in Justice Administration or another individualized course in statistics relevant to one's course of study and career plans. It is recommended that students planning an individualized minor select courses from the following: Psychology 101 or 102, 201 and 235; General Business 304; and Political Science 120, 220, 340, 341, 345, and 360.

Other programs which are suggested to complete degree requirements are the Liberal Arts Business Minor (page 189) or the Chicago Urban Semester (page 49).

A course in statistics (Psychology 201 or Mathematics 240) is recommended as well as courses in computer science are recommended for students who intend to enter graduate school.

**Minor.** A minor consists of at least 18 credits in sociology. Courses must include Sociology 110, (245 or 250), 310, 320 and six additional credits taken beyond Level I.

**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.

**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.** Courses taught at the introductory level and without prerequisites.

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.

130.**The Criminal Justice System.**

   2+3. Cr. A survey of the operations, functions and interactions of the police, the courts and correction agencies; that is, social organizations which respond to crime. Field trips and observation of selected agencies may be scheduled. Required for the criminology concentration. Open to other students only by consent of the instructor. Normally offered every fall. Prerequisite: approval of the Chair of the Department.

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.

160.**Contemporary Social Problems.**

   Cr. 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 polity - and how they 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.

**Level II.** Courses which build on Level I courses, providing students with more insight into fundamental concepts and theoretical approaches. Prerequisite for all Level II courses is Sociology 110, 130, or 150, or consent of the Chair of the Department.

220.**The Family.**

   Cr. 3. A study of the family as a basic social unit and institution, with emphasis on the various forms and functions of the family. Special consideration is given to modern influences on the interaction and organization of American family life.

*Credit for Sociology 110 may be earned through the College Level Examination Program in Introductory Sociology.*
Cr. 3. An introduction to the diversity of human cultures in the contemporary world, ranging from small-scale preliterate communities to subcultures of complex societies.

245. Society and the Individual.
Cr. 3. The social-psychological study of the ways society influences the behavior of the individual. Course focuses on theoretical approaches of symbolic interaction, social exchange, and dramaturgical analysis. Normally offered every fall.

Cr. 3. An examination of the basic principles people use to structure their relationships (such as inequality, cooperation, contract), the variables that affect these (such as gender and age), and the resulting types of social groups and structures found in contemporary societies. Normally offered every spring.

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, sexual deviation, etc. Normally offered every fall.

Cr. 3. 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. Normally offered every spring.

290. Topics in Sociology.
Cr. 3. Topics selected on the basis of student and faculty interest. May be repeated for credit if topics are different.

291. Topics in Criminology and Criminal Justice.
Cr. 3. Survey course focused on gaining topical knowledge and understanding of such criminal justice topics as corporate crime, international terrorism, prison reform, drugs and crime, victimology, etc. May be repeated for credit if topics are different.

292. Topics in Anthropology.
Cr. 3. Survey course on specific culture areas and ethnic groups such as Peoples and Cultures of the Middle East or Muslim Society. Through ethnographic case studies, films, slides, and lectures, students are introduced to a range of societies and compare and contrast various aspects of their cultures. Areas selected on the basis of student and instructor interest. May be repeated for credit if topics are different.

Level III. Courses designed to provide depth of experience and understanding in narrow subject areas. All have as a prerequisite at least Sociology 110 or 150 or consent of the Chair of the Department. Some courses have additional prerequisites.

Cr. 3. Study of the historical development of sociological thought and the contributions of major theorists, along with an introduction to the logic of scientific inquiry and theory building in the social sciences. Required of all majors and minors. Normally offered every fall.

Cr. 3. Strategies for developing and testing hypotheses; comparison of basic and applied research goals; methods of generating and organizing data; computer-aided elementary analysis. Skills are taught through small-scale projects whenever possible. Required of all majors and minors. Open only to sociology majors and minors of at least junior standing. Prerequisite: Sociology 110, 245, 250, and 310 or consent of the Chair of the Department. Normally offered every spring.

325/325. 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.

327/327. 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.

340/340 (formerly 345). Gender.
Cr. 3. An exploration of cross-cultural variations in the elaboration of sex roles: gender. Drawing on accounts from a variety of Western and non-Western societies, the course focuses on some of the important questions relevant to understanding the social construction of gender, e.g., childhood practices, division of labor, power, symbolism, and language.

347/347. 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.

350/350. Law Enforcement.
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. Prerequisites: Sociology 130 and 260 or 265, or consent of the Chair of the Department. Normally offered in the spring of even-numbered years.

360/360. Penology.
Cr. 3. A critical social scientific examination of prisons, jails and community correctional services, including the work of probation and parole officers, with emphasis on both historical development and current trends and issues. Prerequisites: Sociology 130 and 250 or 265 or consent of the Chair of the Department. Normally offered in the fall of even-numbered years.

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. Experience and workload vary with both the field of study and the agency assignment. Required of all criminal justice students, recommended for all others. Prerequisites: junior standing and consent of the Chair of the Department.

390/590. Issues in Sociology.
Cr. 3. This course focuses on a particular social issue or issues from a problem of dilemma standpoint, such as substance abuse, sexism, racism, ageism, and occupational discrimination. May be repeated for credit if the issues are different.

Cr. 3. This course addresses a specific criminal justice issues or issues such as the expanded use of probation and parole; white collar crime and street crime; police violence; the use of capital punishment; recidivism; and cross-cultural comparative crime. May be repeated for credit if the issues are different.

392/592. Issues in Anthropology.
Cr. 3. An exploration of some of the issues debated by anthropologists today. These include global power and sociocultural development; sickness and health in cross-cultural perspective; nationalism, culture and identity; aging in cross-cultural perspective. May be repeated for credit if the issues are different.

Cr. 3. The study of the place of law in society, the relationship between law and social change, and the relationships between the law and other social institutions. Normally offered in the spring of odd-numbered years.

481. Cooperative Education in Sociology/Criminal Justice/Anthropology I.
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.

482-483. Cooperative Education in Sociology/Criminal Justice/Anthropology II-III.
Cr. 1-3. Continuation of Sociology 481. Prerequisites: Sociology 481 and approval of the Chair of the Department. May be repeated beyond 483 for additional credit.

486. Internship in Criminal Justice I.
Cr. 3. Continuation of Sociology 386. Available to students in the criminal justice concentration who do not elect to participate in the Chicago Urban Semester Program. Prerequisite: Sociology 386.

493. Senior Seminar.
Cr. 3. An integrative reading and discussion course which applies sociological approaches the student has learned in previous courses to current topics and issues. Required of all concentrations. Prerequisite: senior standing or consent of the Chair of the Department.

495. Independent Study in Sociology.
Cr. 1-3. 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.

497. Honors Work in Sociology.
Cr. 3. See Honors Work, page 47.

498. Honors Candidacy in Sociology.
Cr. 3. See Honors Work, page 47.
Theatre and Television Arts

Associate Professors Leeseberg-Lange, Paul (Chair), Pick.

The Theatre and Television Arts 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 the theatre and television industries or in industries where knowledge of theatre and television production is required; (2) students who take the academic courses to meet the General Education Requirements or who find creative expression.

Theatre and Television Arts should consult the Department for specific requirements.

The University Theatre, a co-curricular venue for the study and practice of theatre art, is a community of thoughtful students 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 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 student 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 four major productions, experimental theatre, student-directed plays, and Soul Purpose, a touring chamber drama troupe. Theatre work is focused in performance, production, and administration. 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.

101. Introduction to Contemporary Theatre and Television.
   Cr. 3. An introduction to the fields of theatre and television, surveying developments in the arts of performance and design, the technology, and the literature during the past twenty-five years. Field trip to Chicago.

130. Makeup and Costume.
   2+2, Cr. 3. An introduction to the design and practice of stage and studio costumes and make-up, with discussion of materials, equipment and historical background. Offered in the fall semester.

131. 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.

132. Theatre Practice.
   0+2, Cr. 1, or 0+4, Cr. 2. Creative work in the production of stage plays, teleplays, or dance productions. This course may be taken more than once, up to a maximum of six credit hours. Majors must take a minimum of one credit per academic year. Offered each semester.

134. Voice and Diction.
   Cr. 2. An introduction to the technical skills in voice production and articulation for the actor.

140. 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.

171. Basic Dance.
   Cr. 2. An introduction to movement and dance 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 in the spring semester each year.

172. Modern Dance I.
   Cr. 3. Introduction to modern dance technique, vocabulary and body awareness. Offered in the fall semester each year.

236. Acting II.
   2+2, Cr. 3. A continuation of study in the theory and technique of acting. Prerequisite: Theatre and Television Arts 136.

238. World of Theatre I.
   Cr. 3. An introduction to the history and literature of the theatre from the ancient Athenians to 1700. Development of theatrical performance is traced through films, slide projections, live performances, recordings and lectures. Prerequisite: sophomore standing or approval of the Chair of the Department. This course may be used to fulfill the Fine Arts/Fine Arts Literature component of the General Education Requirements. Offered each fall semester.

239. World of Theatre II.
   Cr. 3. An introduction to the history and literature of the Western theatre from 1700 through the modern period. Development of theatrical performance is traced through films, slide projections, live performances, recordings and lectures. Prerequisite: sophomore standing or approval of the Chair of the Department. This course may be used to fulfill the Fine Arts/Fine Arts Literature component of the General Education Requirements. Offered each spring semester.

SPECIALIZED MINORS

Acting Minor. The minor must include Theatre and Television Arts 130, 134, (135 or 136), 141, 171, and 357. Toward the end of the completion of the course work, the student in Acting must do an independent project (TTVA 390) for one credit hour, preparing scenes, sketches, or monologues for public performance.

Theatre Production Minor. The minor must include Theatre and Television Arts 130, 131, 135, (131 or 133), and one course in theatre literature (238, 239, 337, or 338). Toward the end of the completion of the course work, the student in Theatre Production must do an independent project (TTVA 390) for one credit hour, directing a short play or video for public exhibition.

Theatre Design Minor. The minor must include Theatre and Television Arts 130, 131, 335, 336, and one course in theatre literature (238, 239, 337, or 338). Toward the end of the course work, the student in Theatre Design must do an independent project (TTVA 390) for one credit hour, preparing designs and working drawings for costumes, scenery and lighting for a selected play or video or dance production.

Teaching Programs. Students who plan to teach speech, theatre, television or dance in secondary schools with a major or minor in Theatre and Television Arts 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 48.

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

Approval of Schedules. All students pursuing a major or minor in Theatre and Television Arts must have their schedules approved by the Chair of the Department at the time of registration.

The University Theatre, Co-curricular venue for the study and practice of theatre art, is a community of thoughtful students 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 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 student 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 four major productions, experimental theatre, student-directed plays, and Soul Purpose, a touring chamber drama troupe. Theatre work is focused in performance, production, and administration. 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.

101. Introduction to Contemporary Theatre and Television.
   Cr. 3. An introduction to the fields of theatre and television, surveying developments in the arts of performance and design, the technology, and the literature during the past twenty-five years. Field trip to Chicago.

130. Makeup and Costume.
   2+2, Cr. 3. An introduction to the design and practice of stage and studio costumes and make-up, with discussion of materials, equipment and historical background. Offered in the fall semester.

131. 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.
Theatre and Television Arts

231. Television Production.
Cr. 3. (Also offered as Communication 251.) A practical course in television production. Students produce programs and acquire experience in all facets of production, including scripting, shooting, editing and performing. Prerequisite: Communication 101.

252. Writing for Stage and Screen.
Cr. 3. Devoted to the study of creative writing in dramatic form, giving particular attention to the particular requirements of stage, film and television. Prerequisite: English 100 or consent of the instructor. Offered in the fall semester.

273. Modern Dance II.
Cr. 3. Expansion of modern dance vocabulary and body awareness. Prerequisite: Theatre and Television Arts 172. Offered in the spring semester.

280. Topics in Theatre, Television, and Dance.
Cr. 1-3. Topics, projects, and independent studies arranged according to the interests of students and instructors. Offered each semester.

334. Theatre of the Non-Western World.
Cr. 3. Survey of the traditional theatre and drama of Asia and Africa. Prerequisite: Junior standing or approval of the Chair of the Department. Offered in the spring semester of odd-numbered years.

338.357. The History of Theatre as a Visual Art.
Cr. 3. A survey of theatre as an art form, building on developments in architecture, sculpture, and painting. Prerequisite: Junior standing or consent of the Chair of the Department.

Cr. 3. A survey of the American theatre and drama from the eighteenth through the twentieth centuries. The modern period, including playwrights such as O'Neill, Miller, Williams, and Albee, and the musical theatre are given special emphasis. This course may be used to fulfill any one of the Fine Arts/Literature component of the General Education Requirements. Prerequisite: Junior standing or consent of the Chair of the Department.

358. Television Drama.
Cr. 3. A survey of drama written for television from the early days of the medium to the present. Students will analyze television plays and their authors in their social and historical context. Areas of study will include genres, treatment of topical issues, ideological content, and the relationship of the dramatic form to the evolving production and distribution technology. Offered in the spring semester.

359.355. Design for Stage and Television.
2+2, Cr. 3. The translation of written and verbal concepts into scenic elements of line, form, space, texture and color. The actor/stage relationship is examined with regard to design for the various forms of theatre and television, and dance production. Offered in the fall semester.

387. Performance for the Camera.
2+2, Cr. 3. A practical course in relating acting and performance techniques to the special requirements of the studio and television camera. Prerequisite: Theatre and Television Arts 251. Offered in the spring semester of each year.

388. Advanced Television Production.
Cr. 3. (Also offered as Communication 388.) Workshop format emphasizing advanced production and program practices. Projects include preparation of television materials for possible off-campus usage. Prerequisite: Theatre and Television Arts 251 or consent of the Chair of the Department. Offered in the spring semester of each year.

389. Cooperative Education in Theatre and Television Arts.
Cr. 0.5-3. Professional work experience with a cooperating employer. Written report required. Prerequisite: Approval of the Chair of the Department.

390. Internship.
Cr. 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.

390. Topics and Projects.
Cr. 1-3. Individual or group. Specific projects based on special interests of students and faculty. Example topics: Drama and the Church, Television Drama, Theatre and Film, Comedy, Dance, Entertainment and the Laws. Offered in the spring semester of each year.

413. 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: Theatre and Television Arts 130 or 131, and 135 or consent of the Chair of the Department. Offered in the fall semester.

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: Theatre and Television Arts 130 or 131, and 135 or consent of the Chair of the Department. Offered in the fall semester.

497. Honors Work in Theatre and Television Arts.
Cr. 3. See Honors Work page, page 47.

498. Honors Candidacy in Theatre and Television Arts.
Cr. 3. See Honors Work page, page 47.
### Theology

#### LEVEL II. Ordinarily sophomore year. Prerequisite for courses in this level is one course at Level I.

- **210. Literature of the Bible.**
  - Cr. 3. A study of the development of the two Testaments in the framework of the history of ancient Israel and early Christianity. Emphasis is placed on key theological themes and on the literary types within these scriptures.

- **220. Formative Events in Church History.**
  - Cr. 3. A study of those events which shaped the Church's understanding of its nature and mission.

- **230. The Christian Faith.**
  - Cr. 3. A study of the formation and development of Christian creeds and doctrine.

- **234. Comparative Christianity.**
  - Cr. 3. An examination of various Christian denominations in the light of their history and confessions.

- **240. Christian Ethics.**
  - Cr. 3. A study of norms for moral judgment and the dynamics for moral action in the light of the Christian faith.

- **250. The Church in the World.**
  - Cr. 3. A study of the life and mission of the Church, with particular emphasis on movements for renewal, reform and reunion, as well as on current events in Church life. Special attention is given to developments in Latin America and Africa.

- **260. History of Religions.**
  - Cr. 3. A study of major religions and of the ways in which they interpret the nature of reality and the relationship between humanity and the divine.

- **290. Theological Topics.**
  - Cr. 3. Focused topics offered on the basis of student and faculty interest. May be repeated for credit if topics are different.

#### LEVEL III. Prerequisite for courses in this level is one course at level II. To fulfill General Education Requirements, students must take a Level III course in their junior or senior year.

### THE BIBLE AND ITS WORLD

- **311. Understanding the Old Testament.**
  - Cr. 3. A study of the history and theology of the Old Testament with attention to its role in Christian faith.

- **312. Understanding the New Testament.**
  - Cr. 3. A study of the history and theology of the New Testament with attention to its role in the Old Testament.

- **313. Archaeology and Religions of the Ancient Near East.**
  - Cr. 3. A study of the religions of Mesopotamia, Egypt and the Levant as known from archaeological. Special reference is made to the Israelites in the context of the ancient Near East.

- **314. The Books of Moses.**
  - Cr. 3. A study of the Pentateuch with emphasis on Israel's understanding of the beginning, the history of the patriarchs, the exodus, the wilderness wanderings, and the preparation for entering the promised land.

- **315. Psalms and Prayers of Ancient Israel.**
  - Cr. 3. A study of the prayers in the Book of Psalms, with attention to the language and dynamics of prayer. Use is made of form-critical results in the study of the psalms.

- **316. The Prophets of Israel.**
  - Cr. 3. A study of 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.

- **317. The New Testament in Its Cultural Environment.**
  - Cr. 3. 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.

- **318. Jesus and the Gospels.**
  - Cr. 3. A comparative study of the New Testament gospels with a focus on the uniqueness of each in its presentation of the story of Jesus.

- **319. Studies in Pauline Thought.**

### CHURCH HISTORY

- **321. Early Christianity.**
  - Cr. 3. A study of major events, themes and developments in the history of the church in the period beginning with the ministry of Jesus and the Apostles ending about 500 A.D.

- **322. Reformation Christianity.**
  - Cr. 3. A study of the impact of the theology of the Protestant reformers on the church with special emphasis on the work of Martin Luther.

- **323. History of Christianity Since the Reformation.**
  - Cr. 3. A study of the history of Christianity from 1650 to the present.

- **324/524. The American Religious Experience.**
  - Cr. 3. An investigation of American religious thought with special emphasis on the interaction between religion and cultural development.

- **325. History of Luthers in America.**
  - Cr. 3. A survey of the history of American Luthers from colonial times to the present, with emphasis on the nineteenth century immigrations and twentieth century trends.

- **326. History of Women in the Church.**
  - Cr. 3. An investigation from biblical times to the present of women's roles in Christian religious communities and of the cultural contexts that shape such attitudes and practices.

### CHRISTIAN THOUGHT

- **321. Life and Thought of Martin Luther.**
  - Cr. 3. A study of the life of Martin Luther and the structure of his thought.

- **322. Theology of the Lutheran Confessions.**
  - Cr. 3. A study of the historical background and doctrinal content of the confessions of the Lutheran Church.

- **332. Lutheranism: Theology.**
  - Cr. 3. A study of the central perspectives of Lutheran theology, with special reference to its Reformation origins and to contemporary issues in North American Lutheranism.

- **333. Constructing a Working Theology.**
  - Cr. 3. A study of issues and problems encountered in the attempt to construct an ordered and coherent structure of thought about the Christian faith.

- **334. Trends in Twentieth Century Theology.**
  - Cr. 3. A survey of twentieth century theology, including a study of major currents and of representative works of particular theologians or schools of thought.

- **335. 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.

- **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.

### STUDIES IN ETHICS AND CULTURAL VALUES

- **341. Introduction to Bio-Ethics.**
  - Cr. 3. (May also be offered as Philosophy 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.

- **342. Christian Faith and Contemporary Politics.**
  - Cr. 3. A study of how different Christian thinkers have understood the nature and function of government and the relation of the Christian faith to political action.

- **343/543. Theology of Marriage and Sexuality.**
  - Cr. 3. A systematic study of the many issues stemming from the contemporary understanding 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.

- **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, etc.

- **345. Christian World Literature.**
  - Cr. 3. An exploration of the meaning of Christian faith in dialogue with modern literature, particularly with a view toward understanding the human condition and discovering implicit religious dimensions in representative novels and plays.

### CHURCH AND MINISTRY

- **352. Theology of Christian Education.**
  - Cr. 3. A study of the role of the Christian teacher, the needs of the Christian learner, and the resources of the Christian faith in the educational process. The course is designed for all those who may be involved in some facet of the teaching mission of the Church.

- **354/554. Understanding Death and Dying.**
  - Cr. 3. An exploration of the biblical meaning of death in relation to contemporary cultural meanings. Each student is encouraged to consider the meaning of his or her own death. Special attention is given to the care of the dying.

- **355/555. Principles and Forms of Worship.**
  - 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.

- **356. Christian Response to Social Victims.**
  - Cr. 3. A study of theological resources and possible strategies for individuals to become involved in serving the victims of such social problems as aging, poverty, deteriorating neighborhoods, criminal justice, alcoholism and physical handicaps.

- **358. Spiritual Needs and Health Care.**
  - Cr. 3. An examination of the spiritual dimension of health care. Special attention will be given to the assessment and meeting of spiritual needs in the care of oneself and of others.

- **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.
Theology

451. 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.

453. Clinical Deaconess Education.
Cr. 3. A carefully supervised practicum in ministry to the physically ill and the elderly. Designed principally for senior Deaconess students, this course in practical theology engages student in disciplined reflection on their diocesan ministry. Usually SU basis. Prerequisite: junior or senior standing.

HISTORY OF RELIGIONS

Cr. 3. Studies of selected topics in Judaism: biblical, rabbinc and contemporary. A student may receive credit for this course more than once, provided that the topics are different. These offerings are sponsored in part by the Jewish Chautauqua Society.

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 the significant contemporary developments in the Muslim world.

363. Religions of China and Japan.
Cr. 3. A study of the religious worldview of China and Japan, seen both in 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.

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.

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.

366. Zen and 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, drama painting, calligraphy, architecture, flowers, and gardening, with special emphasis on chanoyu (the tea ceremony).

367. Encounter with Recent Religious Movements in America.
Cr. 3. Mini Session Only. A study of some of the non-Christian religious groups currently active in the United States, such as Baha'i, Hare Krishna Society, Zen Buddhism, and the Unification Church (i.e., the "Moonies"). Wherever possible, the study of each group is approached through its origin in one of the living world religions. At least one field trip is included.

368. American Indian 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.

OTHER COURSES

390/590. Topics in Theology.
Cr. 3. As special circumstances and opportunities allow, certain unlisted courses may be announced under this listing. A student may receive credit for this course more than once, provided that the topics are different.

480. Practicum in Ministry.
Cr. 1-3. Field experience with 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, nor may it be counted toward the theology major or minor. It may be repeated for a maximum of six credits, and is offered only on an SU basis. Arranged with the Chair of the Department. Prerequisite: junior or senior standing.

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 SU basis. Prerequisite: junior or senior standing.

483. 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.

485. 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, 12 credit hours in theology, and consent of the Chair of the Department.

487. Honors Work in Theology.
Cr. 3. See Honors Work, page 47.

488. Honors Candidacy in Theology.
Cr. 3. See Honors Work, page 47.

CHRIST COLLEGE
THE HONORS COLLEGE

Mark R. Schwenn, Ph.D., Dean
Margaret Franson, M.A.L.S., Assistant to the Dean

Professors Lee, Olnsted, Piehl, Schwenn; Assistant Professor Contino; Instructors C. Geiman, Kerr.

Christ College is the honors college of Valparaiso University. Established in 1967, Christ College celebrates more than a quarter century of providing an honors-level liberal arts curriculum dedicated to the study and practice of the basic arts of inquiry and committed to educational processes that enable students to achieve a measure of intellectual independence.

Christ College students are concurrently enrolled in one of the University's undergraduate Colleges--Arts and Sciences, Business Administration, Engineering, and Nursing--where they earn their bachelor's degrees. Study in Christ College complements all academic programs, providing stimulating interdisciplinary study in the humanities with master teacher-scholars and academically talented students. Many Christ College courses fulfill the University's General Education Requirements.

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 second major or an academic minor in Christ College humanities coursework.

Requirements for these programs are described in detail on pages 151-152.

Christ College provides an environment where human thought and feeling are themselves objects of description, explanation, and evaluation, and where students discover their personal freedom by becoming increasingly confident in the critical arts of interpretation and judgment. By grounding its curriculum firmly in the best works of thought and culture, Christ College seeks to develop in its students intellectual skills and arts of sound judgment so that they become generally educated human beings with the capacity to sustain the life of the mind beyond graduation.

The 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**

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 seminar-sized classrooms, a 70-seat multimedia lecture hall, a comfortable lounge gallery, an honor's reading room, a multi-purpose refectory, and faculty offices.

By developing an academic community that operates 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 change 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 extra-curricular activities, and a measure of curiosity and creativity are invited by the Dean of Christ College to apply for the honors program. Approximately 65 freshmen are accepted into the Christ College Freshman Program each fall.

The Christ College Freshman Program (CC 110: Text 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. It 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. For example, some sophomores are admitted to Christ College each fall. These students enroll in sophomore-level Christ College courses and begin the pursuit of the 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 second major or a minor in humanities through Christ College coursework.

**Membership in Christ College.** A student formally admitted to Christ College in order to pursue a Scholar or Associate distinction is designated a member of Christ College. Once admitted to membership, the student's status is periodically reviewed by the faculty to determine whether the student is satisfying the standards and requirements of Christ College. These requirements include satisfactory academic progress toward the College's stated goals and contribution to the common life of the College and the University. Even when students are not directly involved in the courses offered by the College, they shall contribute to the College's common life, partly through their relationship with an adviser and partly through membership in the Christ College Symposium which meets regularly.

The Dean and the faculty take an interest in the total program of each member. Accordingly, the Dean may authorize certain variations in the normal academic requirements of a student if such variations seem desirable. For example, the Dean may permit an extra credit hour, to waive prerequisites for advanced courses, to acquire academic credit through examination, and to waive certain University requirements if such waivers are justified. In general, the faculty may tailor a program to meet a student's interests and needs within the general framework of the College's objectives.

Membership in Christ College is never terminated by the mechanical application of arbitrary criteria such as cumulative grade point average or the student's academic record for a particular semester. In general, a Christ College student should expect to maintain an average grade of 3.30 or better. Members of the College are normally required to meet, by course examination or other evidence of qualification, the regular requirements for graduation except where explicitly modified. The Dean of Christ College may recommend such adjustments in these requirements as are in the spirit of the University's requirements and in the best interests of the student.

**Academic Advising and Approval of Course Schedules.** Advising of students pursuing programs in Christ College is under the general direction of the Assistant to the Dean. Christ College freshmen are usually advised by a member of the Christ College faculty. Sophomores, juniors, and seniors are advised by the Assistant to the 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 enrolled is what determines that student'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.

Students are advised in such a way as to prevent them who are not members of Christ College from pursuing a second 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 21 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 (CC 300). Students may not choose the S/U grading option for coursework beyond CC 110 in all coursework used to fulfill the requirements for Scholar designation.

**Required coursework includes:**

- CC 110 Texts and Contexts I
- CC 115 Texts and Contexts II
- CC 101 Word and Image
- CC 218 Christian Scriptures and Interpretation in the Humanities
- CC 300 Seminar
- CC 399 Tutorial Studies
- CC 499 Colloquium

One course selected from:

- CC 260 Interpretation in the Humanities
- CC 260 Interpretation in the Social Sciences
- CC 270 Interpretation in the Natural Sciences

One course selected from:

- CC 300 Seminar
- CC 485 Inquiry in the Liberal Arts

An approved off-campus study program
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 and 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 elects the Freshman Program each of the three years and who has not taken CC 110 and CC 115 is required to take one additional 3-credit seminar (CC 300). 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CC 110</td>
<td>Texts and Contexts I</td>
<td>8</td>
</tr>
<tr>
<td>CC 116</td>
<td>Texts and Contexts II</td>
<td>8</td>
</tr>
<tr>
<td>CC 216</td>
<td>Christian Scriptures and Theological Classics</td>
<td>3</td>
</tr>
<tr>
<td>CC 399</td>
<td>Tutorial Studies</td>
<td>3</td>
</tr>
<tr>
<td>CC 499</td>
<td>Colloquium</td>
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</tbody>
</table>

Second Major in Humanities. The second 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 second major in humanities. The second major in humanities requires a minimum of 23 credit hours in Christ College courses.

Required coursework includes:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CC 205</td>
<td>Word and Image</td>
<td>4</td>
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<tr>
<td>CC 280</td>
<td>Interpretation in the Humanities</td>
<td>4</td>
</tr>
<tr>
<td>CC 280</td>
<td>Interpretation in the Social Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CC 399</td>
<td>Tutorial Studies</td>
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<td>CC 499</td>
<td>Colloquium</td>
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Three CC seminars taken on campus | 9 | 4 |
| CC 300 Seminar | 3 |
| CC 300 Seminar | 3 |
| CC 300 Seminar | 3 |
| CC 300 Seminar | 3 |

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:

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CC 280</td>
<td>Interpretation in the Humanities</td>
<td>4</td>
</tr>
<tr>
<td>CC 280</td>
<td>Interpretation in the Social Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CC 399</td>
<td>Tutorial Studies</td>
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<tr>
<td>CC 499</td>
<td>Colloquium</td>
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One course selected from:

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</tr>
<tr>
<td>CC 499</td>
<td>Colloquium</td>
<td>1</td>
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</tbody>
</table>

A course used to fulfill the requirements of a minor in humanities may not be used to fulfill the requirements of any other major or minor.

COURSE OFFERINGS

The Freshman Program

CC 110. Texts and Contexts I: Traditions of Human Thought. Cr. 4. This course, designed for first-time students, provides an opportunity for students to examine texts from the Western literary tradition that have been influential in the development of human thought and values. The course is designed to introduce students to the critical methods and techniques used in the study of literature.

CC 115. Texts and Contexts II: Traditions of Human Thought. Cr. 4. This course, designed for second-year students, provides an opportunity for students to examine texts from the Western literary tradition that have been influential in the development of human thought and values. The course is designed to introduce students to the critical methods and techniques used in the study of literature.

CC 215. Studies in Christian Scriptures and Theological Classics. Cr. 3. A study of the history and development of Christian teaching and practice through the ages. The course is designed to introduce students to the critical methods and techniques used in the study of religious texts.

CC 220. Interpretation in the Humanities. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the humanities. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 230. Interpretation in the Social Sciences. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the social sciences. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 240. Interpretation in the Mathematical Sciences. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the mathematical sciences. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 250. Interpretation in the Natural Sciences. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the natural sciences. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 260. Interpretation in the Biological Sciences. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the biological sciences. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 270. Interpretation in the Physical Sciences. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the physical sciences. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 280. Interpretation in the Humanities. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the humanities. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 290. Interpretation in the Social Sciences. Cr. 4. An introduction to the study of interpretation through the examination of selected primary materials in the social sciences. Specific questions of authorial voice, the nature of language, symbol, and tradition in society, of audience expectation and response, of appropriate modes of inquiry and methods of validation, and the role of participant-observer are considered in the context of recent work in the field.

CC 300. Seminar. Cr. 3. Each semester Christ College offers seminars dealing with topics 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. Seminars are taught by faculty members, but are not limited to these designations. Recent seminar topics include:

- African Politics and Literature
- Ancient Political Thought
- Ethical Reflection and Modern Literature
- Eugene O'Neill: Tragedy on the American Stage
- Faulkner and the Moral Imagination
- Inventors of the Body
- James Agee and Dorothy Day
- Literary Study of Biblical Narrative
- Marxism and Modernity
- Love and Friendship
- The Sacred Text in Chinese Taoism
- Twentieth Century Russia: Politics, Culture, Religion
- Updike, D'Alvries, and Contemporary America
- Wordsworth and Hardy

CC 300 may be repeated with different seminar topics. Prerequisites: open to sophomores, juniors, and seniors, including those who are not members of Christ College, and consent of the Dean.

CC 399. Tutorial Studies. Cr. 3. A course in the theory and practice of the liberal arts. Students in this course will take a course in the liberal arts on a one-on-one basis. Prerequisite: consent of the Dean.

CC 405. Tutorial Studies. Cr. 3. A course in the theory and practice of the liberal arts. Students in this course will take a course in the liberal arts on a one-on-one basis. Prerequisite: consent of the Dean.

CC 415. Independent Study Project. Cr. 2. A special independent study project arranged with a faculty member. Approval of the project must be obtained from the faculty mentor and the Dean of the College prior to registration. Forms for this project are available from the Dean's Office.

CC 425. Christ College Colloquium. Cr. 1. A colloquium offered under the supervision of the faculty of Christ College and built upon the work studies have begun in their tutorial studies. Each year the colloquium is structured around presentations based on student research. Prerequisites: CC 399 and consent of the Dean.
COLLEGE OF BUSINESS ADMINISTRATION

John A. Miller, D.B.A., Dean
Alice W. Krause, M.Ed., Assistant to the Dean

Professors F. Langreh, Mainstone, McCuddy, Miller; Associate Professors Ehrenberg, Reichardt, David Schroeder, Dean Schroeder; Assistant Professors Becker, Hires, Holder, Morrison, Ozgur, Pace, Strasser, Stieck, Trapp.

Organization. The College is a separate administrative instructional unit of the University under the direction of the Dean of the College and offers two degrees: a Bachelor of Science in Accounting with a major in Accounting and a Bachelor of Science in Business Administration with a major in Business Administration. A student selecting the Business Administration major has the option either of concentrating in financial management, human resource management, marketing management, or of following a general business track.

Accreditation. The college degree programs are fully accredited by the American Assembly of Collegiate Schools of Business (AACSB). AACSB is recognized by the Council on Postsecondary Accreditation and by the U.S. Department of Education as the sole accrediting agency for degree programs in business administration and accounting. Only sixteen schools in the entire nation which focus exclusively on undergraduate business education have earned AACSB's prestigious professional accreditation.

Objectives. The increasing size and complexity of business organizations and the changing economic, political, legal and social environments worldwide require that business students learn to approach problems from the viewpoint of many disciplines. As reflected in its Mission Statement, the major objectives of the College of Business Administration and its faculty are:

1. To provide a quality education, broadly grounded in the liberal arts and sciences, in a personalized environment for undergraduate students by preparing them for careers in business;
2. As part of a Lutheran university, to emphasize the responsibilities of Christians in business;
3. As responsible professionals, to serve campus, local and global communities, and church;
4. And to engage in scholarly work which enhances or improves teaching or contributes to knowledge in professional business disciplines.

The curriculum in general education assures each student exposure to a broad range of disciplines, problem-solving techniques and methods of inquiry. The business curriculum likewise introduces students to opportunities which help develop concepts, tools of analysis and methods of evaluation which serve as a foundation for their growth into competent and ethically responsible business men and women prepared for professional work in the global environment. Such a philosophy is particularly appropriate for undergraduate education in business, which, though it properly concerns itself with preparation for multiple careers in professional life, must also concern itself with preparation for life in general.

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 a major in Accounting or Business Administration. The requirements for each major are set forth in the curricula described on pages 158-159.

Each of the two curricula requires that the students devote approximately one-half of their time to required and elective courses in the core and 40 percent of the time to required courses in specified nonbusiness disciplines. Students may select concentrations in the applied social sciences, behavioral sciences, and professional areas. Students may select concentrations that are nonbusiness electives from any of the natural sciences, social sciences, or behavioral sciences. Students normally choose elective courses in those areas which provide support to their professional program. Specific details concerning the prerequisites for courses in the

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arts and sciences can be found in the College of Arts and Sciences section of this bulletin.

Minor. In addition to minors in programs outside the College of Business Administration, business students may complete the requirements for an interdisciplinary minor, with the approval of the College of Business and Global Studies (available to business students only, see page 159), or in Manufacturing Management (available to both business and engineering students, see page 190), or in Applied Statistics (see page 186).

A student may declare a minor in the College of Arts and Sciences. No more than two courses (three in economics or mathematics) of specified nonbusiness courses required for a College of Business Administration degree may be used in fulfilling the requirements of a 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. Those students invited to participate in Christ College will also have an advisor 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 151-152).

Double Concentration. Students may earn a double concentration by completing all the requirements for two concentrations—a total of eight different courses for each.

Double Major. Students may complete a double major by fulfilling all the requirements as stated in the catalog under the particular degree requirements for the major. Upper division accounting courses may not be used to fulfill the requirements for a double major between accounting and one of the business administration concentrations. Students who earn double majors by completing both degrees will be granted the degree of Bachelor of Science in Business Administration.

Cooperative Education. Cooperative education is a program designed to permit students to explore career possibilities while
College of Business Administration

enrolled in school. They participate in supervised experiences in business settings outside the classroom. Students in good standing in the College of Business Administration may participate in the cooperative education program after completing 24 credits. They may be employed in either alternating (full-time) or parallel (part-time) positions. Students register for the appropriate number of credits for each co-op placement and may apply a total of six credits in cooperative education and/or internships toward fulfillment of their elective requirements. Co-op placements require prior approval of the CBA Cooperative Education Coordinator; students interested in the co-op program should meet with the Coordinator early in their academic career. Students add a semester to their graduation date for each semester they are on a co-op assignment.

Internships. Internships enable students with senior standing to apply business concepts learned in their concentration or major course work in actual organizational settings. Students register for two credits for an internship placement; they may apply no more than six credits in cooperative education and/or internships toward fulfillment of their elective requirements. Internships require prior approval of the CBA Internship Coordinator.

Small Business Institute Program. The Small Business Institute Program is a program in which students participate as a member of a team of student consultants on actual small business cases. Enrollment is limited by the number of cases. All consultant activities are performed by the students under supervision of the faculty coordinator. Students receive three credits and letter grades in the SBI Program.

Admission. The general requirements for admission to the University and to the College are found on pages 195-196 of this bulletin.

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 199 regarding theology requirements and to page 11 for the Freshman Studies requirement. Freshman or sophomore transfers from other accredited institutions who have completed business courses designated as upper division (305-498) in this bulletin do not automatically receive upper division transfer credit. Transfer credit is granted only for business courses which have been taken at the same level as that required at Valparaiso University. Evaluation of such credit is made by the Dean's Office. Any course work completed at other colleges or universities with a grade lower than C does not carry transfer credit.

Advancement to Upper Division. For advancement to upper division and permission to enroll in courses 305 or above in the College, a student must complete a minimum of 66 credit hours with an overall cumulative grade point average of at least 2.00. In addition, the student must complete all the lower division curriculum courses listed below with a minimum grade point average of 2.00.

**DESIGNATED LOWER DIVISION COURSES**
- Mathematics 122 Intuitive Calculus .......... 4 Cr.
- Mathematics 124 Finite Mathematics .......... 4 Cr.
- Computer Science 117 Intro to Computers .......... 3 Cr.
- Accounting 105 Managerial Accounting .......... 3 Cr.
- Decision Science 205 Business Statistics .......... 3 Cr.
- General Business 206 Legal Environment of Business .......... 3 Cr.
- Economics 221 Economics - Micro .......... 3 Cr.
- Economics 222 Economics - Macro .......... 3 Cr.
- Total .......... 29 Cr.

Upper Division Standards. To remain in good academic standing in the upper division a student must maintain a minimum cumulative grade point average of 2.00 in all business courses, 2.00 in all business courses, and 2.00 in courses in the Accounting major (eight upper division Accounting courses and Business Law) or the Business Administration concentration (the four courses in the concentration plus the appropriate 300 level core course).

Graduation Requirements. To be eligible for the Bachelor of Science in Accounting or Business Administration degree, a student must complete one of the prescribed curricula found on the following pages. The student must also satisfy the upper division grade point requirements stated above and must meet all additional requirements for graduation established by the University (see pages 205-206 in this bulletin).

**SU Grading Option.** This option is permitted in all non-business courses except Mathematics 122 and 124, Computer Science 117, Economics 221 and 222, and any non-business course used in the International Business and Global Studies, Manufacturing Management, or Applied Statistics minor. See page 209 for a complete explanation of the SU grading option. The College of Business Administration does not encourage students to take any course SU other than for the purpose of exploring new areas.

Advisement. Advisement of students admitted to the College is under the direction of the Assistant to the Dean. The Assistant to the Dean helps freshmen and sophomores select courses and interpret the requirements for orderly progress toward the degree. In addition, faculty members also are available to lower division business students for both course selection and career advisement. Each upper division student in the College is assigned a faculty adviser. It is each student's responsibility to know curriculum requirements, prerequisites for courses, academic policies and procedures, and deadline dates.

**STUDENT ORGANIZATIONS**

Students may 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 and encourage scholarship and social activity and to promote closer affiliation between the commercial world and students of business.

**Accounting 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 scholarship and social activity and to promote closer affiliation between the 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.

**Human Resource Management.** SHRM is a professional association organized to provide its members with assistance in their professional development, to stimulate research in the profession, and to promote leadership in establishing and supporting standards of professional excellence.

**Financial Management Association.**

**Financial Management Association--Richard H. Laube Student Chapter.** The organization promotes scholarship and professionalism within the field of finance. Student and faculty sponsored programs are designed to enhance the classroom experience and to help students make the transition from college to business. Membership is open to students interested in finance.

**American Marketing Association--William E. Urschel Chapter.** This organization promotes scholarship and professionalism within the field of marketing. Student and faculty sponsored programs are designed to enhance the classroom experience and to help students make the transition from college to business. Membership is open to all students interested in marketing.

**HONOR SOCIETIES**

**Beta Gamma Sigma.** National honor society which recognizes outstanding academic achievements of students in AACSB accredited business programs. The upper ten percent of the senior class and the upper seven percent of the junior class are invited into its membership. Members are entitled to wear gold honor cords at commencement.

**Accounting Honor Society.** Recognizes members of the Accounting Society who have excelled in the study of accounting.

**American Marketing Association Honor Society--Alpha Mu Alpha.** National marketing honorary which recognizes outstanding scholarship in the field of marketing.

**Decision Science Honor Society--Alpha Kappa Delta.** Sponsored by the Decision Science Institute to recognize academic excellence in the field of decision sciences.

**Financial Management Association Honor Society.** Sponsored by the Financial Management Association to recognize outstanding scholarship in the field of finance.
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COURSES COMMON TO ALL COLLEGE OF BUSINESS ADMINISTRATION DEGREE PROGRAMS

The College of Business Administration offers two degree programs—the Bachelor of Science in Accounting and the Bachelor of Science in Business Administration. Courses specifically required in either degree program are listed under the degree program descriptions following the General Education and Business Core requirements. The following courses are common requirements for both sequences.

GENERAL EDUCATION

Freshman Studies
Theology 100 Introduction to Theology 3 Cr.
English 100 Exposition and Argument 3 Cr.
History 100 The Western World in Global Perspective 3 Cr.
Freshman Seminar 100 3 Cr.

Total 12 Cr.

Academic Area Studies

Thesis Level II and Level III 6 Cr.
English 200 Literary Studies 4 Cr.
Mathematics 122 Intuitive Calculus 4 Cr.
Mathematics 124 Finite Mathematics 4 Cr.
Economics 221 Business - Macro 3 Cr.
Economics 222 Economics - Macro 3 Cr.
Computer Science 117 Intro to Computers 3 Cr.
Non-Western or Third World Studies 3 Cr.
Social Analysis 3 Cr.
Natural Science 3 Cr.
Behavioral Science (Note 1) 3 Cr.
Non-business Electives 7 Cr.
Physical Education 101-105 1 Cr.

Total 48 Cr.

Total General Education 60 Cr.

Notes:
1. Behavioral sciences include psychology, sociology, and anthropology. Either Psychology 101 or Psychology 102 must be included in the general education portion of the curriculum. If Psychology 102 fulfills the Natural Science requirement, then Sociology 110, 150 or another psychology course must be selected for the Behavioral Science requirement.
2. No more than four credits combined from performance music, ensemble music, and Physical Education 101-149 may be applied toward a degree. With the exception of one credit of the general education requirement of PE 101-105, PE courses are free elective credits only.
3. No more than six credits from cooperative education and/or internship may be applied toward the degree; they are free elective credits only.

BUSINESS CORE
Sophomore (Lower Division) Courses
ACC 205 Financial Accounting 3 Cr.
ACC 206 Managerial Accounting 3 Cr.
DS 205 Business Statistics 3 Cr.
GBUS 206 Legal Environment of Business 3 Cr.

Total 12 Cr.

Junior Core Courses

GBUS 304 Management and Organizational Behavior 3 Cr.
FIN 304 Financial Management 3 Cr.
MKT 304 Marketing Management 3 Cr.

Total 9 Cr.

Junior/Senior (Upper Division) Courses

DS 305 Production-Operations Management 3 Cr.
DS 410 Management Information Systems 3 Cr.
GBUS 470 Business Policy and Strategy 3 Cr.

Total 9 Cr.

Business Core 30 Cr.

BACHELOR OF SCIENCE IN ACCOUNTING

The degree in Accounting prepares students for professional careers in public accounting, industry, financial institutions and not-for-profit organizations.

MAJOR REQUIREMENTS

ACC 310 Intermediate Financial Accounting I 3 Cr.
ACC 311 Intermediate Financial Accounting II 3 Cr.
ACC 320 Cost Accounting 3 Cr.
ACC 330 Accounting Information Systems 3 Cr.
ACC 410 Federal Income Tax Accounting 3 Cr.
ACC 410 Advanced Accounting 4 Cr.
ACC 450 Federal Income Tax Accounting II 3 Cr.
ACC 470 Auditing 3 Cr.
GBUS 410 Business Law 3 Cr.

Total 28 Cr.

Free electives (Notes 2 and 3) 8 Cr.

Grand Total 36 Cr.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

The Bachelor of Science in Business Administration degree program permits students to major in Business Administration. Students who choose to major in Business Administration may select from four concentration options. They may specialize in one of three management concentrations—Financial Management, Human Resource Management, or Marketing Management—or they may follow a General Business track.

FINANCIAL MANAGEMENT CONCENTRATION

FIN 330 Management of Financial Institutions 3 Cr.
FIN 410 Finance Theory and Practice 3 Cr.
FIN 420 Investment Management 3 Cr.
FIN 470 Financial Strategy and Policy 3 Cr.
DS/MATH 340 Statistics for Decision Making 3 Cr.

Total 15 Cr.

FINANCIAL MANAGEMENT Core Courses

GBUS 304 Management and Organizational Behavior 3 Cr.
FIN 304 Financial Management 3 Cr.
MKT 304 Marketing Management 3 Cr.

Total 9 Cr.

Business Electives: Select three non-core upper division business courses (except cooperative education and/or internship) from any of the following areas:
1. Accounting, ACC 3 Cr.
2. Decision Science, DS 3 Cr.
3. General Business, GBUS 3 Cr.
5. Marketing, MKT 3 Cr.

Total 9 Cr.

Free electives (Notes 2 and 3) 11 Cr.

Grand Total 24 Cr.

HUMAN RESOURCE MANAGEMENT CONCENTRATION

HRM 310 Organizational Change and Development 3 Cr.
HRM 320 Human Resource Practices I 3 Cr.
HRM 330 Human Resource Practices II 3 Cr.
HRM 470 Human Resource Management 3 Cr.

Total 12 Cr.

Business Electives: Select four non-core upper division business courses (except cooperative education and/or internship) from any of the following areas:
1. Accounting, ACC 3 Cr.
2. Decision Science, DS 3 Cr.
3. Finance, FIN 3 Cr.
4. General Business, GBUS 3 Cr.
5. Marketing, MKT 3 Cr.

Total 12 Cr.

Free electives (Notes 2 and 3) 11 Cr.

Grand Total 35 Cr.

GENERAL BUSINESS CONCENTRATION

Students must select a plan of study under the supervision of a faculty adviser where they may gain a General Business track.

FINANCIAL MANAGEMENT Core Courses

GBUS 304 Management and Organizational Behavior 3 Cr.
FIN 304 Financial Management 3 Cr.
MKT 304 Marketing Management 3 Cr.

Total 9 Cr.

Business Electives: Select three non-core upper division business courses (except cooperative education and/or internship) from any of the following areas:
1. Accounting, ACC 3 Cr.
2. Decision Science, DS 3 Cr.
3. General Business, GBUS 3 Cr.
5. Marketing, MKT 3 Cr.

Total 12 Cr.

Free electives (Notes 2 and 3) 11 Cr.

Grand Total 24 Cr.

MINOR IN INTERNATIONAL BUSINESS AND GLOBAL STUDIES

Administrative Committee: Assistant Professors Stiiick, Trapp.
Intercollegiate Advisory Committee: Department Chairs of Economies, Foreign Languages and Literatures, Geography, History, and Political Science.

The interdisciplinary minor in International Business and Global Studies is available to business majors only. It provides the 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 Business Core Courses

BUS 430 International Environment of Business 3 Cr.
MKT 430 International Marketing 3 Cr.

International Economics Requirement

Select one of the following courses.
ECON 326 International Economics 3 Cr.
ECON 336 Economics of Developing Nations 3 Cr.
ECON 390 Topics in Economics (with approval) 3 Cr.

Modern Foreign Language Requirement

Two courses in one language sequence are required.

East Asian Region
Japanese 101 and 102 8 Cr.
Chinese 101 and 102 8 Cr.
East Asia 109 and 110 10 Cr.

European Region
French 102 and 103 8 Cr.
German 102 and 103 8 Cr.
Spanish 102 and 103 8 Cr.

Latin American Region
Spanish 102 and 103 8 Cr.

General International Track
Two courses from any of the single language sequences listed above are required.

International Elective Tracks

One track is required.

East Asian Region
Choose two of the following courses:

European Region
Choose two of the following courses:
Geography 312, History 313, 315.
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Latin American Region
Choose two of the following courses:
- Geography 311, History 230, 231, 331.

General International Track
Choose one course from two different groups:
1. History 101, 102
2. Political Science 130, 230
3. Political Science 330 or 335.

International Study Abroad Track
Six credits of area study approved by the Administrative Committee.

**COURSE DESCRIPTIONS**

**ACCOUNTING**

ACC 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. Prerequisite: sophomore standing. Permits of the instructor or Dean required.

ACC 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: ACC 205.

ACC 290/390. Topics in Accounting.
Cr. 1-3. A detailed examination of selected topics pertinent to the field of accounting. The course may be offered when sufficient interest and staffing are available. Permission of the instructor or Dean required. Prerequisites may vary, depending upon topics being covered.

Cr. 3. A study of generally accepted accounting principles as applied to asset measurement, liability valuation, and income determination. Prerequisite: ACC 206 and completion of or concurrent enrollment in ACC 330 and FIN 304.

ACC 311. Intermediate Financial Accounting II.
Cr. 3. The continuation of Accounting 310 with emphasis on generally accepted accounting principles as applied to stockholders' equity and selected financial reporting topics. Prerequisites: ACC 310 and FIN 304.

ACC 320. Cost Accounting.
Cr. 3. A study of the techniques used to accumulate, measure, plan, and control the costs of an organization's products and services. Prerequisite: ACC 206.

Cr. 3. A study of the use, evaluation, and design of accounting information systems. Prerequisites: ACC 206 and CS 117.

Cr. 3. A study of the principles of federal income taxation with emphasis on provisions applicable to individuals and sole proprietorships. Prerequisite: ACC 205.

ACC 410. Advanced Accounting.
Cr. 4. A study of generally accepted accounting principles as applied to partnerships, corporate consolidations, international operations, and governmental and not-for-profit entities. Prerequisite: ACC 311.

ACC 450. Federal Income Tax Accounting II.
Cr. 3. The continuation of ACC 350 with emphasis on federal tax provisions applicable to corporations, partnerships, estates, and gifts. Prerequisite: ACC 350.

ACC 470. Auditing.
Cr. 3. A study of the principles, procedures, standards, and ethical requirements involved in conducting financial, compliance, and operational audits. Prerequisites: ACC 311 and ACC 330.

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 which covers the proposed research area. Prerequisite: approved research proposal and permission of the Dean.

**DECISION SCIENCE**

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, tests of hypotheses, and simple regression and correlation. Prerequisites: Mathematics 122 and 124 or 132 or 152.

DS 290/390/490. Topics in Decision Science.
Cr. 1-3. A detailed examination of selected topics pertinent to the field of decision science to be offered when sufficient interest and staffing are available. Permission of the instructor or Dean required. Prerequisites may vary, depending upon topics being covered.

DS 305. Production-Operations Management.
Cr. 3. A study of the various forms the production process takes and the corresponding requirements placed upon management. Topics discussed include inventory management, workforce management and production planning and control. It includes the use of management science techniques in the production decision-making process. Prerequisite: admission to upper division or permission of the Dean.

Cr. 3. A study of the fundamentals of management science techniques in decision-making processes from a problem solving perspective. Stresses problem formulation and solution using linear and non-linear programming, queuing theory, dynamic programming, Markov processes and the like. Prerequisite: admission to upper division or permission of the Dean.

Cr. 3. Also offered as Mathematics 340.) A study of statistical concepts and methods to facilitate decision making. Content includes analysis of variance, simple and multiple regression, correlation, time-series analysis, nonparametric methods and Bayesian decision making. Prerequisite: DS 205 (or Mathematics 240 for non-business majors).

Cr. 3. Study of the concepts and applications 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: GBUS 304 and completion or concurrent registration in MGT 304, DS 304 and DS 305.

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

DS 498. Independent Study in Decision Science.
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.

**FINANCIAL MANAGEMENT**

FIN 290/390/490. 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. Permission of the instructor or Dean required. Prerequisites will vary depending upon topics being covered.

FIN 304. Financial Management.
Cr. 3. A survey of the various forms the production process takes and the corresponding requirements placed upon management. Topics discussed include inventory management, workforce management and production planning and control. It includes the use of management science techniques in the production decision-making process. Prerequisite: admission to upper division or permission of the Dean.

FIN 420. Investment Management.
Cr. 3. A study of security markets and investment types emphasizing methods of analysis for the 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.

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. Prerequisites: FIN 304, FIN 410, DS/MATH 340, plus senior standing.

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.

**GENERAL BUSINESS**

GBUS 206. Legal Environment of Business.
Cr. 3. An introduction to 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 facing the manager in today's global economy. Prerequisite: sophomore standing.

GBUS 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. Permission of the instructor or Dean required. Prerequisites will vary, depending upon topics being covered.

GBUS 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: Junior standing, ACC 205 and ECON 221.

*Credit for GBUS 304 for non-business majors only may be earned through the College Level Examination Program subject examination in Principles of Management.

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acquisition of funds, credit extension, liquidity management, and capital structure. Prerequisite: FIN 304.

FIN 410. Finance Theory and Practice.
Cr. 3. This course explores the management and capital structure decision making. It includes topics such as risk and return measurement, capital structure, capital budgeting, and dividend policy. Prerequisites: FIN 304.

FIN 420. Investment Management.
Cr. 3. A study of security markets and investment types emphasizing methods of analysis for the 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.

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. Prerequisites: FIN 304, FIN 410, DS/MATH 340, plus senior standing.

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.

**GENERAL BUSINESS**

GBUS 206. Legal Environment of Business.
Cr. 3. An introduction to 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 facing the manager in today's global economy. Prerequisite: sophomore standing.

GBUS 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. Permission of the instructor or Dean required. Prerequisites will vary, depending upon topics being covered.

GBUS 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: Junior standing, ACC 205 and ECON 221.

*Credit for GBUS 304 for non-business majors only may be earned through the College Level Examination Program subject examination in Principles of Management.
Integrative approach uses case method to explore executive decision making in the global marketplace. Prerequisites: senior standing and completion of all 300-level courses in the upper division core or completion or concurrent registration in DS 410.

GBUS 486. Internship in Administration. Cr. 2. A work experience in which students apply business concepts to situations encountered in actual organizational settings. Prerequisites: senior standing and approval of the CBA Internship Coordinator. S.U. grade.

GBUS 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.

HUMAN RESOURCE MANAGEMENT
HRM 290/390/490. Topics in Human Resource Management. Cr. 1-3. A detailed examination of selected topics pertinent to the field of human resource management to be offered when sufficient interest and staffing are available. Permission of the instructor or Dean required. Prerequisites: approval of research proposal and permission of CBA Internship Coordinator. S.U. grade. May be repeated.

GBUS 410. Business Law. 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. Prerequisite: GBUS 206.

GBUS 420. Small Business Institute. Cr. 3. Practicum in which the student participates as a member of a team of student consultants on actual small business cases referred by the Small Business Administration. Enrollment is limited by the number of cases referred to the SBA. All consultant activities are performed by the students, under general supervision of the faculty coordinator. Prerequisite: approval of the SBI Coordinator.

GBUS 430. International Environment of Business. Cr. 3. A survey course dealing with opportunities and problems encountered in formulating global strategy and managing multinational operations. Focuses on financial, legal, and trade frameworks of international transactions and the major issues involved in managing international business operations.

GBUS 460. Ethics in Business. Cr. 3. An analysis of the moral bases for ethical decisions and behavior's ethical aspects in business leadership. Contemporary business conduct is examined in a critical context. Prerequisite: senior standing.

GBUS 470. Business Policy and Strategy. Cr. 3. Captstone business course. The development of the administrative perspective on management, including establishing and analyzing policy and strategy in various settings, as well as the relationships between administrative decision making and important social and ethical issues.

GBUS 320. Small Business Management and Entrepreneurship. 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: GBUS 304, FIN 304 and MKT 304.

GBUS 381. Cooperative Education in Business I. Cr. 2. The first cooperative education placement. Prerequisite: approval of the CBA Cooperative Education Coordinator. S.U. grade.

GBUS 382. Cooperative Education in Business II. Cr. 2. The second cooperative education placement. Prerequisites: GBUS 381 and approval of the CBA Cooperative Education Coordinator. S.U. grade.

GBUS 383. Cooperative Education in Business III. Cr. 2. The third and subsequent cooperative education placements. Prerequisites: GBUS 382 and approval of the CBA Cooperative Education Coordinator. S.U. grade. May be repeated.

GBUS 410. Business Law. 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. Prerequisite: GBUS 206.

GBUS 420. Small Business Institute. Cr. 3. Practicum in which the student participates as a member of a team of student consultants on actual small business cases referred by the Small Business Administration. Enrollment is limited by the number of cases referred to the SBA. All consultant activities are performed by the students, under general supervision of the faculty coordinator. Prerequisite: approval of the SBI Coordinator.

GBUS 430. International Environment of Business. Cr. 3. A survey course dealing with opportunities and problems encountered in formulating global strategy and managing multinational operations. Focuses on financial, legal, and trade frameworks of international transactions and the major issues involved in managing international business operations.

GBUS 460. Ethics in Business. Cr. 3. An analysis of the moral bases for ethical decisions and behavior's ethical aspects in business leadership. Contemporary business conduct is examined in a critical context. Prerequisite: senior standing.

GBUS 470. Business Policy and Strategy. Cr. 3. Captstone business course. The development of the administrative perspective on management, including establishing and analyzing policy and strategy in various settings, as well as the relationships between administrative decision making and important social and ethical issues.
The last seven semesters provide breadth and depth of study in a chosen field of specialization. Various academic and co-curricular options are available such as an international experience, cooperative education, the Christ College Honors Program, dual degrees and other majors and minors. Graduates are prepared for direct entry into the practice of engineering or for graduate school.

Social, moral and ethical issues are given a place of high importance in the college. This philosophy is consistent with the University's objective of offering students knowledge plus values. This objective can be achieved by full participation in the academic, social, cultural and spiritual life of a Christian campus.

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 1969 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, president 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.

Location. The University's location provides good opportunities for contact with industrial and consulting firms and government agencies. The campus is fifty miles southeast of Chicago and is located in the Calumet and St. Joseph Valley industrial region. This location allows students and faculty to visit engineering projects and organizations and to participate in numerous professional meetings sponsored by engineering societies in the area.

College Organization. Administratively, the College is an instructional unit under the direction of the Dean of Engineering. The individual programs in Civil Engineering, Electrical Engineering, and Mechanical Engineering are directed by the faculties of the three engineering departments under the leadership of Department chairs. The Freshman Coordinator and the Coordinator of Cooperative Engineering Education report to the Dean.

Independent Study Project. All students, with the exception of some cooperative education students, are required to complete a major independent study project under the supervision of a faculty advisor. This year-long capstone project focuses on the investigation of engineering problems and emphasizes oral and written communication skills. Some of the projects are suggested and sponsored by industrial and consulting firms and government agencies. Special research interests of the faculty and of the students are also sources of project topics.

Computer Facilities. A wide variety of computers and computing facilities are provided in Gellersen Center for engineering, computer science, and mathematics students and faculty. In addition to these facilities, other computers are housed in Schnabel Hall, adjacent to Gellersen Center. Additional computer and computer related facilities are strategically located in staffed clusters and in residence halls on the campus. A time-shared computer provides a resource for engineering students and is accessible at various points on the campus through networked PCs, workstations, or PDP 11/23s. All engineering faculty have PCs or workstations in their Gellersen offices.

PCs and Unix workstations located in Gellersen Center run a wide range of engineering applications. Engineering design, analysis, simulation, and manufacturing software is available for all disciplines. Internet access is available from most systems in Gellersen Center.

Students will find it beneficial to own a PC when undertaking an engineering major. An Intel based PC is recommended. All students should have or quickly develop basic keyboard skills. Computers and concomitant software

The University of Valparaiso

The University of Valparaiso is an independent, private liberal arts college affiliated with the Evangelical Lutheran Church in America and the Christian Church (Disciples of Christ). It has a total enrollment of approximately 3,000 undergraduate students, representing over 40 states and 20 countries. It is located on a 90-acre campus in Valparaiso, Indiana, approximately sixty miles southeast of Chicago and fifty miles northwest of downtown Indianapolis. The campus is adjacent to Lake Michigan and is situated in the heart of the Chicago-Michigan lakeshore region.

The University of Valparaiso offers a comprehensive curriculum in the arts, sciences, humanities, and social sciences. It has a strong focus on personal growth and development, with a commitment to fostering a spirit of critical thinking, creativity, and ethical integrity. The University is committed to providing a diverse and inclusive learning environment that prepares students for meaningful lives and careers in a rapidly changing world.

The University of Valparaiso is a member of the Great Lakes Colleges Association (GLCA) and the Higher Learning Commission of the North Central Association of Colleges and Schools (NCA). It is accredited by the Higher Learning Commission and the Commission on Colleges of the North Central Association (NCA). The University is also accredited by the Council on Rehabilitation Education (CORE) and the National Council for Accreditation of Teacher Education (NCATE). Additionally, the University has programs accredited by the Accreditation Board for Engineering and Technology, Inc. (ABET), the American Medical Association, and the American Psychological Association (APA).

The University of Valparaiso has a strong tradition of community service and engagement. It is a member of the Volunteer Action Center (VAC) and the Illinois-Indiana Sea Grant College Program. The University also participates in the National Oceanic and Atmospheric Administration (NOAA)'s Coastal Education and Research Program (CERP).

The University of Valparaiso is committed to providing a world-class education that is both rigorous and supportive. The University has a low student-to-faculty ratio, allowing for personalized attention and mentorship. The University is also proud of its strong record of graduate and professional school placements, with graduates entering a variety of fields including medicine, law, engineering, and finance.

The University of Valparaiso is a member of the NCAA and participates in Division III athletics. The University has a strong tradition of academic excellence, with a focus on providing a strong liberal arts education while also emphasizing the development of critical thinking, problem-solving, and communication skills.

The University of Valparaiso is committed to providing a safe and supportive environment for all students, with a strong focus on ensuring the well-being and success of each individual. The University has a strong commitment to diversity, equity, and inclusion, and is dedicated to creating a welcoming and inclusive community for all members.

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College of Engineering

are part of all engineering programs, and class assignments involve use of computers on a daily basis. Therefore, all students are urged to acquire a personal computer for use in their place of residence by the end of the first semester of the freshman year.

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 Computer Engineering Society, the Institute of Electrical and Electronic Engineers, the American Society of Mechanical Engineers, and the Society of Women Engineers all have active student chapters on campus. 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.

Professional Education. Registration of those who wish to practice professional engineering is required by law in each of the states and the District of Columbia. The purpose of the law is to assure the general public that those professing to practice engineering have been examined and accepted by a State Board of Examiners. Graduate engineers who are to more fully practice engineering if they are registered as a Professional Engineer (PE). Registration requires passing the Fundamentals of Engineering Examination typically followed by four years of engineering experience, after which the candidate can sit for the PE Examination. Senior engineering students are provided with information about the licensing process and an invitation, which they are urged to accept, to take the Fundamentals of Engineering Examination at Valparaiso University during the spring semester of their senior year.

Placement. The Office of Career Planning and Placement arranges on-campus interviews with a variety of employers who are interested in hiring graduates. Comprehensive services are also available to assist students seeking employment opportunities with organizations which do not interview on campus. Assistance is also available within and outside of the College of Engineering for students wishing to find graduate study opportunities, cooperative education positions, summer employment, or part-time employment during the school year. Resource libraries provide information on employment and graduate school opportunities throughout the United States.

Accreditation. Bachelor of Science degree programs in Civil Engineering, Computer Engineering, Electrical Engineering and Mechanical Engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

SPECIAL PROGRAMS OF THE COLLEGE OF ENGINEERING

Cooperative Education. Cooperative education 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 coop 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. 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.

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 nuclear, electromechanical, bio-medical or chemical engineering or medicine can enrich their engineering 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 studies in consultation with a faculty adviser and must secure approval of the Dean of the College. Upon graduation the student receives a Bachelor of Science degree in Civil, Electrical or Mechanical Engineering.

Students who have an interest in nuclear engineering may take advanced courses in nuclear science offered by the Department of Physics. The Department of Physics has excellent facilities and maintains a modern subcritical nuclear reactor.

Manufacturing Management Minor. A minor in Manufacturing Management is offered jointly by the College of Engineering and the College of Business Administration (see page 390 for requirements) for engineering students.

Student Advisement. Each first-year engineering student is assigned an academic adviser. This adviser assists the student with program planning through the first two-thirds of the first semester of study. Upon selection of a specific engineering major, a new adviser is provided for that degree area.

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 181 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 Intercooperative Academic Office.

 Majors and Minors. A student may earn a major or minor in other colleges of the university by satisfying course and credit requirements specified for a major or minor provided that no more than seven hours of specific courses required for the engineering program are used in fulfilling the requirements for the major or minor. The student will take more courses than are required for an engineering degree. 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. The 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 the College.

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 described on pages 123 and 18-23 of this catalog, engineering students are permitted to arrange an international cooperative education assignment.

THE ENGINEERING PROGRAMS

Mathematics Placement. There are two acceptable paths which engineering students may take in fulfilling the mathematics requirement. One path provides additional instruction in functions and trigonometry; this path consists of Mathematics 131, 132, and 234. The second path includes Mathematics 151, 152, and 234. Both sequences provide proper preparation for the engineering curriculum and satisfy graduation requirements for the College of Engineering. For further information on selection of appropriate entry-level courses and advanced placement, see the Placement and Special Credit section under the Department of Mathematics and Computer Science.

Admission Requirements. The requirements for admission of first year students to the College are listed on pages 195-196 of this catalog. Academic work taken at other institutions is evaluated for advanced standing 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 the course of study. Transfer students may apply a maximum of three credit hours in theology and advanced to the theology requirement. An engineering transfer student with more than 65 credit hours of advanced
College of Engineering

standing need only complete one theology course (3 Cr.) at Valparaiso University.

**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 Coordinator or a department chair and with the approval of the Dean of Engineering. Students who are on suspension from the College of Engineering and 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 on academic suspension may not be used to satisfy College of Engineering degree requirements.

**Other Academic Policies.** University academic policies are described on pages 205-206 of this general catalog. The College of Engineering has established additional academic policies and procedures consistent with University Policies and tailored to the needs of the engineering program. Policy and procedure statements regarding taking courses on an S/U basis and withdrawing from courses are available in the Dean’s office.

**Graduation Requirements.** In addition to other requirements set forth on pages 205-206 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.

The student must also complete one of the prescribed engineering curricula. The curriculum for each degree is composed of a group of courses common to the degree program offered by the College and a group of courses that make up the specialized studies in a selected program. Courses required for each specific program are found in the departmental listings.

In addition to meeting all other requirements, courses must be selected to satisfy minimums established by the Accreditation Board for Engineering and Technology. These minimums are: 32 credit hours of mathematics and basic sciences, 32 credit hours of engineering sciences, 16 credit hours of engineering design, and 16 credit hours of humanities and social sciences.

**ACADEMIC DEFICIENCY**

Students whose cumulative resident Grade Point Average in any of the four categories listed above under Graduation Requirements fall 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.

**CORE COURSES COMMON TO ALL UNDERGRADUATE ENGINEERING PROGRAMS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 100 Exploring Engineering</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Chemistry 115 General Chemistry</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>English 100 Exposition and Argument</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>English 200 Literacy Studies</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Seminar 100</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>History 100 The Western World in Global Perspectives</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Mathematics 131, 132 Calculus (or 151, 152)</td>
<td>10 Cr.</td>
</tr>
<tr>
<td>Mathematics 234 Differential Equations and Linear Algebra</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Physical Education 101-105</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>Physics 141 Mechanics of Heat</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Physics 141L Experimental Physics I</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>Theology 100 Introduction to Christian Theology</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Theology Elective, Level II or III</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Total</td>
<td>48 (47) Cr.</td>
</tr>
</tbody>
</table>

*Defined on page 146.

**Advisors have a list of approved courses.**

**SUGGESTED LOWER DIVISION SEQUENCE**

As noted, the first semester of the College’s programs is common for all students. At the beginning of the second semester, the student generally begins a program leading to one of the professional degrees. For those who wish to defer their choice until the third semester, special schedules are arranged for the second semester to provide continuation with minimum loss of progress. Suggested sequences leading to the various degrees are found in the departmental offerings.

**Freshman Year, First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 100 Exploring Engineering</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>FS 100 Freshman Seminar</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>MATH 131 (or 151) Analytical Geometry and Calculus I</td>
<td>5 (4) Cr.</td>
</tr>
<tr>
<td>PHYS 141 Physics: Mechanics and Heat</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>PHYS 141L Experimental Physics I</td>
<td>1 Cr.</td>
</tr>
<tr>
<td>THEO 100 Introduction to Christian Theology</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Total</td>
<td>18 (17) Cr.</td>
</tr>
</tbody>
</table>

**GENERAL ENGINEERING**

See page 50 for the number of credit hours that may be applied toward a degree in the College of Arts and Sciences.

**GE 100.Exploring Engineering.**

Cr. 3. An introductory course emphasizing the engineering profession, academic success skills, and computer literacy. Topics include productivity tools, an intensive survey of the various engineering professions, and academic survival skills. Applications of physics and calculus with acceptable engineering problems. Corequisite: MATH 131 or 151, PHYS 141L.

**GE 109.Mechanics-Statics.**

Cr. 3. 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: Mathematics 131 or 151.

**GE 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, impulse and momentum. Prerequisites: Mathematics 132 or 152 and GE 109.

**GE 407.Engineering Economics.**

Cr. 2. The theory of economic decision-making based on comparisons of worth of alternative courses of action with respect to cost. It includes time-value mechanics and depreciation methods. Prerequisite: junior standing in the College.

**GE 481.Cooperative Education I.**

Cr. 2. The application of theoretical and experimental engineering concepts in business, consulting, industrial or government setting. Emphasis is placed on involvement in real world engineering projects requiring analysis, design

and investigative skills. Requires satisfactory work performance at a pre-selected employer and the submission of a final report in approved form. Prerequisites: approval of the Cooperative Engineering Education Coordinator and the Department.

**GE 482.Cooperative Education II.**

Cr. 2. A continuation of GE 481. This course requires a satisfactory employer evaluation and a final report in approved form. An oral presentation before faculty and peers is required if credit is to be waived for the Independent Study Project.

**GE 483.Cooperative Education III.**

Cr. 1. Application of the concepts of engineering in a business, consulting, industrial or government environment. It requires a final report in approved form. May be repeated for up to three credit hours. Prerequisites: approval of the Cooperative Engineering Education Coordinator and the Department.

**GE 499.Senior Problem.**

Variable Cr. Selected students are permitted to work out a special problem in their particular field under the supervision of a member of the faculty. Each student is required to keep a progress notebook and to turn in a final report in approved form. Open only to students with senior standing upon permission of the faculty and approval of the Dean of the College.

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**Civil Engineering**

Professors Schueler, Seeley, Spring (Chair), Welsh; Assistant Professors Al-Jobeh, Tarhini.

“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.”

—American Society of Civil Engineers

Civil engineers plan, design, and supervise the construction and maintenance of facilities that transport people and materials, control floods, provide safe, clean drinking water, and provide for the safe, efficient cleanup of wastewater and hazardous waste. Such facilities include highways, airports, bridges, buildings, flood
control structures, dams, and landfill disposal sites. In these projects the civil engineer builds paramount the safety, health and welfare of the public they serve. Civil engineering is truly a people-serving profession.

Civil Engineering Laboratories. The Civil Engineering program at Valparaiso University is arranged to maintain proper balance between laboratory and classroom instruction. Over 5000 square feet of modern, well-equipped laboratory space is available in five laboratories for materials testing, fluid mechanics, concrete and soil mechanics, environmental engineering and experimental stress analysis. In addition, field exercises in surveying are conducted outdoors except in the case of unusually inclement weather. The laboratory experience is vital to the interpretation and application of classroom theory.

Graduation Requirements. The following courses are required to earn the Bachelor of Science in Civil Engineering degree.

Semester 1
- GE 100 Exploring Engineering ........................................... 3 Cr.
- FS 100 Freshmen Seminar .............................................. 1 Cr.
- MATH 131 (151) Analytic Geometry and Calculus I .................. 5 (4) Cr.
- PHYS 141 General Physics .............................................. 4 Cr.
- PHYS 141L Experimental Physics I .................................. 1 Cr.
- THEO 100 Introduction to Christian Theology .......................... 3 Cr.

Semester 2
- CE 101 Surveying .......................................................... 3 Cr.
- GE 109 Mechanics-Statics .............................................. 3 Cr.
- ENGL 100 Exposition and Argument .................................. 3 Cr.
- HIST 100 The Western World in Global Perspectives .................. 3 Cr.
- MATH 132 (152) Analytic Geometry and Calculus II .................. 5 Cr.

Semester 3
- CE 202 Statistical Applications ........................................ 3 Cr.
- Civil Engineering .......................................................... 3 Cr.
- CE 253 Transportation .................................................... 3 Cr.
- GE 209 Mechanics-Dynamics ........................................... 3 Cr.
- CHEM 155 General Chemistry ......................................... 4 Cr.
- PE 101-105 Physical Education ....................................... 1 Cr.
- THEO II or III Theology Elective .................................... 3 Cr.

Semester 4
- CE 212 Materials of Engineering ....................................... 3 Cr.
- CE 215 Mechanics of Materials ....................................... 3 Cr.
- CHEM 230 Quantitative Analysis ...................................... 4 Cr.
- MATH 234 Differential Equations and Linear Algebra ............... 4 Cr.
- Mathematics/Science Elective ........................................ 4 Cr.

Semester 5
- CE 315 Structural Analysis I .......................................... 4 Cr.
- CE 320 Soil Mechanics .................................................... 3 Cr.
- CE 322 Hydrology .......................................................... 3 Cr.
- CE 364 Environmental Engineering I .................................. 3 Cr.
- ENGL 200 Literary Studies ............................................. 4 Cr.

Semester 6
- CE 316 Structural Design I ............................................. 4 Cr.
- CE 322 Soil & Foundation Engineering .................................. 3 Cr.
- CE 334 Fluid Mechanics ................................................ 3 Cr.
- CE 365 Environmental Engineering II ................................... 3 Cr.
- COMM 140 Public Speaking ............................................. 2 Cr.
- Career Enhancement Elective ........................................... 3 Cr.

Semester 7
- CE 417 Structural Design II ............................................. 4 Cr.
- CE 444 Engineering Management ....................................... 3 Cr.
- CE 495 Independent Study Project I ................................... 1 Cr.
- Civil Engineering Elective ............................................ 3 Cr.
- THEO II or III Theology Elective .................................... 3 Cr.
- Career Enhancement Elective ........................................... 3 Cr.

Semester 8
- CE 496 Independent Study Project II .................................. 2 Cr.
- Civil Engineering Electives ............................................ 6 Cr.
- Economics 222 or 222 ............................................... 3 Cr.
- Principles of Economics ................................................ 3 Cr.
- Humanities/Social Science Elective ................................... 3 Cr.

Total credits required for graduation: 137 (136)

Cooperative Education. Students may request to substitute up to six credits of GE 481 through GE 483 for the Civil Engineering career enhancement electives.

Career Enhancement Electives: These six credits must be consistent with the student's written statement of career goals. Approval by the student's advisor is required.

Mathematics/Science Elective: These four credits can be satisfied by Mathematics 233, Physics 142, Biology 171, Chemistry 221, or other selections approved by the student's advisor.

Civil Engineering Electives: These nine credits are to be selected from the array of Civil Engineering electives provided.

CIVIL ENGINEERING

See page 50 for the number of credit hours that may be applied toward a degree in the College of Arts and Sciences. Courses with # have a laboratory or 3-hour design period.

CE 151 Surveying .......................................................... 3 Cr.
- 2+3, Cr. 3. A study of the science and art of relative spatial measurements for engineering purposes. Special emphasis is placed on the theory of errors, use of surveying instruments, and field practice in transit-tape traversing, leveling and route surveying.

CE 202 Statistical Applications in Civil Engineering .............. 3 Cr.
- Cr. 3. An introduction to the planned procurement, property description, analysis, and presentation of engineering data. A study of the continuous and discrete distributions most commonly encountered in engineering quality control, experimentation, and design. Emphasis is given to the Central Limit Theorem and its applicability in many areas of Civil Engineering, to the estimation of the sample size required to achieve desired levels of confidence in the conclusions reached by the engineer, to probabilistic methods used in experimental design and quality control, and to a variety of applications of probabilistic theories in engineering practice and research. Prerequisite: Mathematics 132 or 152.

CE 211 Materials Engineering ........................................... 3 Cr.
- 2+3, Cr. 3. (1 cr. Design) Study of the mechanical and physical properties of construction materials. Introduction to complete design and non-destructive testing techniques. Laboratory experiments include the measurement of strains using mechanical gages and electrical resistance strain gages; behavior and failure of ductile and brittle materials subjected to axial, bending, torsional forces; introduction to creep, impact and hardness testing; stability of columns. A design project is required, as well as written reports. Prerequisite: CE 215 (may be taken concurrently).

CE 215 Mechanics of Materials ........................................ 3 Cr.
- Cr. 3. 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; design of critical shafts and bending of beams, combined loading; plastic elastic action, and an introduction to statically determinate problems. Prerequisites: GE 109.

CE 215 Transportation .................................................... 3 Cr.
- Cr. 3. (1 cr. Design) Introduction to transportation engineering with an emphasis on highway design. Topics include transportation systems, survey of various transportation modes, location and geometric design of highways, highway drainage systems, design of rigid and flexible pavement systems and pavement rehabilitation. Prerequisite: CE 151 or consent of instructor.

CE 315 Structural Analysis I ............................................ 4 Cr.
- Cr. 4. Analysis of statically determinate and indeterminate structures using classical and matrix methods. Prerequisite: CE 215.

CE 315 Structural Design I ............................................. 3+0, Cr. 4. (4 cr. Design) Principles of the design of steel structures. Design includes axial tension and compression members, flexural members, beam-columns, connections, and composite design. ASD and LRFD methods are used. A comprehensive design project is required. Prerequisite: CE 315.

CE 320 Soil Mechanics .................................................... 3+0, Cr. 3. (1 cr. Design) The study of index, structural, mechanical and hydraulic properties of soils. Soil compaction and stabilization. Theoretical soil mechanics, including shear strength, pressure distribution, consolidation, active and passive states of plastic equilibrium and flow-through permeable media. Elementary principles of laboratory identification and testing of soils. Prerequisites: CE 212, 215 and 332 (may be taken concurrently).

CE 322 Soil and Foundation Engineering ..................................... 3 Cr.
- Cr. 3. (2 cr. Design) A continuation of CE 320. Further aspects of theoretical soil mechanics including slope stability, lateral earth pressure and retaining walls, vertical pressure distribution and settlement, bearing capacity analysis and load capacity of individual piles and pile groups. Proportionaling of shallow and deep foundations. Subsoil investigation techniques. Prerequisite: CE 320.

CE 325 Hydrology .......................................................... 3 Cr.
- Cr. 3. (1 cr. Design) Introduction to surface and ground water hydrology; hydrologic cycle, precipitation, evaporation, infiltration, transpiration, groundwater flow, well hydraulics, runoff, rainfall-runoff relationships, uniform flow in open channels, streamflow measurements, hydrologic routing, hydrologic modeling, hydrologic probability, and applications. Prerequisite: Mathematics 131.

CE 334 Fluid Mechanics .................................................. 3 Cr.
- 2+3, Cr. 3. An examination of fluid properties, fluids at rest, and fluid 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. Prerequisites: GE 209, and Mathematics 132 or 152.

CE 364 Environmental Engineering I .................................. 3+0, Cr. 3. (1 cr. Design) Introductory study of systems common to rural and metropolitan areas of water supplies. Planning and development of water supply and treatment systems. Physical and chemical treatment unit processes. Concepts of solid and toxic waste management. In addition, the student is introduced to laboratory methods and principles related to the sampling and measurement of selected environmental contaminants. Laboratory exercises address selected physical, chemical, and biological characteristics of water and wastewater. Field trips are required. Prerequisite: Chemistry 230.

CE 365 Environmental Engineering II .................................. 3+0, Cr. 3. (3 cr. Design) Study of the physical, chemical and biological wastewater treatment unit processes. Concepts of sludge handling and disposal. Planning and development of wastewater collection systems. In addition, the student is introduced to air pollution sources, air quality, modeling, air quality regulations, and technology for air pollution control. Field trips are required. Prerequisite: CE 364.

CE 415 Structural Analysis II ........................................... 3 Cr.
- Cr. 3. Analysis of statically indeterminate structures using classical and matrix methods. An introduction to the dynamics of structures. Prerequisite: CE 315.
College of Engineering

CE 417. Structural Design II
3+3, Cr. 4. (4 cr. Design) Principles of the design of reinforced concrete members. Design includes flexural members, compression members, one-way slabs and footings. ACI Strength Design Method. Continuation of the comprehensive design project from CE 316. Prerequisites: CE 315 and CE 316.

CE 418. Structural Design III
Cr. 3. (2 cr. Design) Analysis and design of timber and masonry structural system components. The use of specific appropriate specifications in design. Design projects may be required. Taught in alternate years. Prerequisite: CE 315.

CE 420. Geotechnical Practice
Cr. 3. (2 cr. Design) Presentation and discussion of principal components of the art of geotechnical engineering practice. Includes planning subsurface investigations, performance predictions, probabilistic analysis, presenting results and conclusions to clients, forensic practice, ethical considerations, and case studies. Prerequisite: CE 322.

CE 436. Water Resources Engineering
Cr. 3. (1 cr. design) Application of the principles of fluid mechanics to analysis and design of water resources projects. Topics include open channel hydraulics, groundwater flow, and water law. Prerequisite: CE 334 or ME 373.

CE 444. Engineering Management
Cr. 3. Presentation of management concepts, knowledge, and skills to help the technically prepared engineer to be immediately and productively as a practitioner. Self-management, management of others, organizational management, project scheduling, total quality management, engineering economics, business accounting methods, legal issues, ethics, design, the role and selection of consultants, construction, and marketing. Prerequisite: senior standing in the College of Engineering.

CE 457. Traffic Engineering
Cr. 3. (1 cr. Design) Fundamental traits and behavior of road users and their vehicles. Characteristics of a free-flowing traffic stream; 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 466. Environmental Engineering Design
Cr. 3. (3 cr. Design) A basic study of solid and hazardous waste engineering principles and management issues, including sources, forms, environmental effects, methods of handling, methods of disposal and new techniques for reclamation and recycling domestic and industrial waste materials. Planning and development of waste collection systems. Processing techniques, and engineered systems for air pollution control.

Electrical and Computer Engineering

Professors Gelopoulos (Chair), Kraft, Luecke, Vocke; Associate Professors Bohlmann, Goodman, Hart.

The Electrical and Computer Engineering program is designed to provide a variety of career opportunities in industries as diverse as aerospace, computers, manufacturing, communications, and electric power. It is based on required work in circuit theory, analog and digital electronics and the structure of computers and computer languages. Students may select either a computer emphasis track or an electrical emphasis track. The computer emphasis track allows the student to pursue a career in both computer software and hardware and their relationship in engineering computer systems. The electrical emphasis track provides additional work in control and communication system theory, power applications, and electromagnetic theory and applications.

Electrical and computer engineering students make regular use of computers for circuit simulations, mathematical manipulations etc. Since ECE students complete so much of their work using a computer, it is important that they have a personal computer available in their study quarters for routine use. It is strongly recommended that each ECE student own a personal computer.

Landfilling methods, design and operations. Written and oral reports are required. Prerequisite: CE 364 or consent of instructor.

CE 495. Independent Study Project I
1+3, Cr. 2. (1 cr. Design) The application of theoretical and experimental engineering concepts and mathematical principles in the analysis, design or investigation of an engineering system. Individual or group problems in the field of Civil Engineering are to be selected by the student with the approval of the Department of Civil Engineering faculty. Prerequisite: senior standing in Civil Engineering.

CE 496. Independent Study Project II
1+3, Cr. 2. (1 cr. Design) A continuation of the project selected in CE 495.

College of Engineering

Semester 1
GE 100 Exploring Engineering ................. 3 Cr.
FS 100 Freshman Seminar .................... 3 Cr.
MATH 131 or 151 Analytic Geometry and Calculus I ............... 5 (4) Cr.
PHYS 141 Mechanics and Heat ............... 3 Cr.
PHYS 141L Physics Laboratory I .......... 1 Cr.
THEO 100 Introduction to Christian Theology .......... 3 Cr.

Semester 2
ECE 111 Exploring Electrical and Computer Engineering .......... 2 Cr.
ECE 112 Exploring Electrical and Computer Engineering Laboratory .......... 1 Cr.
ENGL 100 English Composition .......... 3 Cr.
HIST 100 The Western World in Global Perspectives ............... 3 Cr.
MATH 132 or 152 Analytic Geometry and Calculus II ............... 5 Cr.
PE 101-105 Physical Education .......... 1 Cr.
PHYS 142 Electricity, Magnetism, Waves .......... 3 Cr.

Semester 3
ECE 202 Computing Tools for Engineers .......... 3 Cr.
ECE 212 Electrical and Computer Laboratory I .......... 1 Cr.
ECE 261 Linear Circuits I ............... 3 Cr.
ECE 185 Algorithms for Computing .......... 3 Cr.
MATH 234 Differential Equations and Linear Algebra .......... 4 Cr.
Theology Requirement .......... 3 Cr.

Electives. Specific recommendations regarding the selection of electives are available from the Department and should be

*Courses which fulfill civil engineering elective requirements.
College of Engineering

ECE 188. Algorithms and Programming II. Cr. 3. (Also offered as Computer Science 185L) (1 cr. Design) Emphasis on the development of structure and discipline in program design and style, especially for intermediate size programs. Prerequisite: ECE 156 or ECE 202 or CS 157.

ECE 202. Computing Tools For Engineers. Cr. 3. Introduction to the solution of electrical and computer engineering problems using computers. In addition to structured languages, important software packages such as PSpice, Matlab, and Vspice are used. The course is designed to complement ECE 261.

ECE 212. Electrical and Computer Laboratory I. 0+3 cr. 1. Introduction to basic instrumentation and measurement in the investigation of electrical circuits. Technical writing and presentation component. Corequisite: ECE 261.

ECE 213. Electrical and Computer Laboratory II. 0+3 cr. 1. A continuation of ECE 210, with more advanced measurement techniques. Technical writing and presentation component. Corequisite: ECE 262.

ECE 220. Digital System Design. Cr. 3. (Also offered as Computer Science 220) (1 cr. Design) A logic design course covering combinational and sequential logic, controller specification and design using MSI and LSI devices.

ECE 223. Advanced Logic Design. Cr. 3. (2 cr. Design) A course in register transfer and system integration logic design. Logic family characteristics and application. PLA and PAL design practice to meet logic requirements. Micro-controllers and MSI structures. Prerequisite: ECE 220.

ECE 235. Data Structures. Cr. 3. (Also offered as Computer Science 235). (1 cr. Design) A detailed study of various data structures, including stacks, queues, linked lists and trees. The emphasis will be on algorithms to build and manipulate the data structures, various implementations, time analysis of the algorithms and applications, such as garbage collection. Prerequisites: ECE 158 and Mathematics 122 or 132 or 152.

ECE 246. Computer Architecture and Programming. 2+3 cr. 3. (Also offered as Computer Science 246) (2 cr. Design) 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: ECE 158 or ECE 202.


ECE 261. Linear Circuit Theory I. Cr. 3. A study of the fundamental methods and theorems of electric circuit analysis with emphasis on analytical and computer-aided methods of AC and DC analysis, transient and complete response. Instantaneous and average power. Prerequisite: ECE 142; corequisite: Mathematics 234 and ECE 202.

ECE 262. Linear Circuit Theory II. Cr. 3. A continuation of ECE 261. The complex frequency plane; resonance, coupled circuits, two-port parameters. A study of polyphase analysis; Fourier series; Fourier transform; Laplacian transform. Prerequisite: ECE 261 with a minimum grade of C.

ECE 281. Fundamentals of Electrical Engineering. 2.9+1.5, Cr. 3. 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 or computer engineering. Prerequisite: Mathematics 122.

ECE 310. Electrical and Computer Laboratory III. 0+3 cr. 1. The course of analog and digital signal processing circuits emphasizing measurement techniques. Prerequisite: ECE 213; corequisite: ECE 340.

ECE 311. Electrical Laboratory IV. 0+3 cr. 1. An introduction to the construction and laboratory evaluation of analog and digital electronic systems and rotating machines. Prerequisite: ECE 310; corequisite: ECE 440 and 370.

ECE 312. Computer Laboratory IV. 0+3 cr. 1. Electrical measurements in computer systems. Study of computer subsystems. A/D and D/A converters, serial and parallel interfaces, memory systems. Prerequisite: ECE 213 and junior standing in the Computer Engineering program.

ECE 314. Analog System Design. Cr. 3. (2 cr. Design) The design of analog electronic systems using discrete and integrated devices. Topics include operational amplifiers, active filters, waveform generators, power amplifiers, power supplies and regulators. Prerequisite: ECE 340.

ECE 350. Organization of Programming Languages. Cr. 3. (Also offered as Computer Science 355.) (1 cr. Design) Formal language constructs as exhibited in a variety of programming languages. Topics include syntax and basic characteristics of grammars, parsing, data types and structure run-time consideration. Corequisite: ECE 238.

ECE 360. Linear System Theory I. Cr. 3. (1 cr. Design) An introduction to design and analysis of linear time invariant systems using state difference equations and linear transform techniques. Prerequisite: ECE 262.

ECE 361. Linear System Theory II. Cr. 3. (1 cr. Design) A continuation of ECE 360 with emphasis on continuous systems and the digital representation of continuous systems. Topics include state space representation of continuous systems, Fourier series, and Laplace and Fourier transforms. Prerequisite: ECE 360.

ECE 360. Energy Conversion. Cr. 3. (1 cr. Design) A study of electromagnetic devices with emphasis on the principles and operating characteristics of transformers and rotating electrical machines. Prerequisite: ECE 262.

ECE 418. Computer Laboratory V. 0+3 cr. 1. Software and hardware development with assemblers and compilers for embedded systems. Prerequisite: ECE 317 or permission of the instructor.

ECE 420. Microprocessor Applications.4 2.7+1, Cr. 3. (2 cr. Design) The application of microprocessors in engineering design, emphasizing the interconnection of available components into systems and case studies of existing applications. Prerequisite: ECE 246 or ECE 223.

ECE 429. VLSI Design Principles and Tools.6 2.7+1 cr. 3. (2 cr. Design) A course in VLSI design tools with emphasis in digital system specifications. Application, simulation and layout tools for the design of integrated electronic systems are introduced. Techniques for speed and size trade-off in design practice are studied. Prerequisites: ECE 220 and 340.

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 boundary value problems, Maxwell’s equations and electromagnetic radiation. Prerequisite: Mathematics 233.
Mechanical Engineering

Professors G. Lehmann, Schoech, Steffen; Associate Professors Doria, Palumbo (Chair); Assistant Professors Bora, Jensen.

The practice of mechanical engineering includes a wide range of technical activities in the areas of energy conversion, automatic control of engineering processes, and the design, development and manufacture of mechanical components or systems. These broad categories can be divided into many sub-specialties. For example, mechanical engineers play an important role in the development of environmentally sound energy resources and energy efficient devices, or in improving the design and manufacturing techniques for products ranging from delicate medical instruments to reliable, safe automobiles. Mechanical engineering contributes to almost every aspect of our society.

The Mechanical Engineering graduate is able to apply scientific knowledge and engineering skills in either graduate school or industry. Industrial careers are as varied as sales and product applications, planning and supervision of manufacturing, designing new products or systems, improving existing products or systems and general company management. Employment opportunities are available in all areas of the economy, including private industry, government service and consulting firms.

Mechanical Engineering Laboratories. The Mechanical Engineering program contains a significant component which is closely correlated with lecture courses. There are eight primary laboratory facilities within the Department. All laboratory facilities are available for use in senior independent study projects. Personal computers with appropriate hardware and software are available in the laboratories for mechanical design, to acquire and process data, to construct data sheets, and to print results and graphs.

The Mechanical Measurements and Mechatronics Laboratory is utilized to promote instruction in the use of standard measurement equipment, calibration techniques, computer data acquisition and the study of mechanical and electrical systems. The Energetics Laboratory provides the opportunity to study sources such as spark ignition and compression ignition engines. Investigations into the laws governing the conversion and transfer of energy are conducted in the Heat Transfer and Gas Dynamics Laboratory which includes many unique pieces of laboratory equipment. The Automatic Control Laboratory is used to conduct experiments with actual and simulated processes and the associated instrumentation to control these processes.

The Manufacturing Processes Laboratory supports instruction in methods and theory of metal working, production systems and automation. This laboratory contains the Integrated Manufacturing and Design Facility. Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) desk top computers are linked to computer numerically controlled (CNC) machine tools and robots to create a flexible manufacturing system (FMS). The Material Science Laboratory contains equipment for instruction in metallurgical specimen preparation and examination and a variety of heat treatment experiments and non-destructive test methods. The Experimental Stress Laboratory provides primary equipment for strain/stress analysis including electrical resistance strain gages, photoelasticity, and brittle coating methods. The Vibrations Laboratory contains mechanical and electrical vibration excitation and measuring devices along with equipment to perform modal analysis and sound measurement and analysis studies.

Progression and Graduation requirements. Policy and procedure statements regarding taking courses on an S/U basis, withdrawing from courses, academic probation, and academic suspension are available in the Dean's Office. Students must make reasonable progress to remain in the major. The following courses, listed in a typical program of study, are required to earn the Bachelor of Science in Mechanical Engineering degree. Courses must be selected to provide a minimum of 16 credits in design.

Semester 1
GE 100 Introduction to Engineering ................................................. 3 Cr.
FS 100 Freshman Seminar .................................................................. 3 Cr.
MATH 131 (151) Analytic Geometry and Calculus I ....................... 5 (4) Cr.
PHYS 141 Mechanics and Heat .......................................................... 3 Cr.
PHYS 141L Experimental Physics ..................................................... 1 Cr.
THEO 100 Introduction to Christian Theology .................................. 3 Cr.

Semester 2
ME 104 Computer-Aided Design ...................................................... 4 Cr.
ENGL 100 Exposition and Argument ............................................... 3 Cr.
HIST 100 The Western World in Global Perspective ..................... 3 Cr.
MATH 132 (152) Analytic Geometry and Calculus II ....................... 5 Cr.
PHYS 142 Electricity, Magnetism and Waves .................................... 3 Cr.

Semester 3
GE 109 Mechanics-Statics ................................................................ 3 Cr.
ECE 281 Fundamentals of Electrical Engineering ......................... 3 Cr.
ME 253 Manufacturing Processes .................................................... 4 Cr.
CHEM 115 General Chemistry .......................................................... 4 Cr.
MATH 233 (253) Analytic Geometry and Calculus III .................... 4 Cr.

Semester 4
GE 209 Mechanics-Dynamics .......................................................... 3 Cr.
ME 225 Computer Languages and Applications ............................ 3 Cr.
ME 232 Mechatronics ....................................................................... 4 Cr.
ME 252 Materials Science ................................................................ 4 Cr.
MATH 234 Differential Equations and Linear Algebra .................... 4 Cr.
ME 201-Mechanical Measurements Laboratory. 3 Cr. A study of fundamental concepts and physical principles involved in the science of measurement. Experiments involve calibration and testing (both static and dynamic) of primary elements, signal amplifiers, transducers and readout devices. Exploration of laboratory and industrial instruments. Extensive use is made of computer data acquisition and spread sheets. Prerequisites: Physics 142 and English 100.

ME 204-Computer-Aided Design. 3 Cr. A course in the theory and technique of engineering graphics related to the design process. Emphasis is placed on theoretical geometric projections, lines and planes in space, orthographic projections, intersections, oblique and sectional views, and dimensioning. Students use both computer-aided and manual drawing procedures. Mechanical drawing emphasis will be placed on the mechanical design process.

ME 225-Computer Languages and Applications. Cr. 3. This course encompasses the use of computers and software to solve problems in mechanical engineering. The fundamentals of structured programming in Pascal are covered. Selected methods of numerical analysis include root finding, curve fitting, integration, solution of systems of equations, and solution of ordinary differential equations. Prerequisite: Mathematics 132; corequisite: Mathematics 234.

ME 226-Mechatronics. 3-3 Cr. 4. (Also offered as Mechanical Engineering 253.) A study of manufacturing methods using algorithms, 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, and characteristics and applications of motors. Prerequisite: ECE 281.

ME 252-Materials Science. 2-3 Cr. 3. (0.5 Cr. Design) A study of the properties of engineering materials related to their selection in design and manufacturing processes. Based on an understanding of atomic and crystal structure, the 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 working of metals. A field trip to an industrial facility is arranged. Prerequisite: Mathematics 132 or 152; corequisite: Chemistry 116.

ME 283-Manufacturing Processes. 3-3 Cr. 4. (Also offered as Mechanical Engineering 253.) A study of manufacturing methods including metal cutting, operation planning, fabrication techniques, and inspection. Machinability of materials, application of machine tool, and Computer Numerical Control (CNC) are introduced through lecture and laboratory work. Field trips to industrial facilities are arranged. Open only to business majors in the Manufacturing Management Minor program. Prerequisite: Mathematics 124, Computer Science 117, and official advancement to upper division in the College of Business Administration.

ME 326-Mechanisms. Cr. 3. (Also offered as Mechanical Engineering 353.) A study of the first and second law of thermodynamics. Extensive use of these laws is made in analyzing processes and cycles. Work is done with vapor power and refrigeration cycles. Additional topics are ideal gases, non-reactive and reactive gas mixtures as well as other specific compressible substances. Prerequisites: Mathematics 132 and Physics 141.

ME 373-Fluid Mechanics. Cr. 3. (0.5 Cr. Design) 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: GE 209.

ME 374-Hot/Power Laboratory. Cr. 3. A study of the analysis of the first and second law of thermodynamics that combine to form the Carnot cycle. Experiments deal with topics such as ideal gases and the effects of temperature, pressure, and volume on the work of an ideal gas. Prerequisite: ECE 261.

ME 391-Advanced Mechanical Measurements Laboratory. 3 Cr. A study of the fundamentals of heat transfer by conduction, radiation and forced convection and their application to mechanical engineering problems. Analytical and graphical solutions for heat exchangers are studied. Corequisite: ME 370.

ME 396-Independent Study Project I. 2 Cr. Students use the computer to study topics of their choice. Prerequisites: Computer Science 132 and 332; corequisite: Mathematics 234.

ME 444-Automatic Control. 2.5+1.5 Cr. 3. (1.5 Cr. Design) A study of feedback control systems and components. Design emphasis is placed on the integration of sensors, actuators, and controllers. Students will analyze and design control systems. Prerequisites: Mathematics 234 and 281; corequisite: Mathematics 236.

ME 485. Robotics/Automatic Systems. 2.5+1.5 Cr. 3. (1.5 Cr. Design) A study of the application of Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) robots, computer-numerically-controlled (CNC) machine tools, and computers to the design of hard and soft automation systems. Design emphasis is placed on the integration of sensors, actuators, and controllers with regard to control systems. Prerequisites: Mathematics 234; corequisite: Mathematics 236.
ME 463. Machine Design I.
2.5+1.5, Cr. 3. (2 cr. Design) 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, welded joints and general mechanical elements. Prerequisite: CE 215.

ME 464. Machine Design II.*
2.5+1.5, Cr. 3. (2 cr. Design) A comprehensive study in the design and analysis of belt and chain drives, gearing, gear trains, antifiction and journal bearings. Shaft critical speeds, dynamic balancing and machine dynamics are considered. Prerequisite: CE 215.

ME 468. Experimental Stress Analysis.*
2.5+1.5, Cr. 3. (1 cr. Design) An introduction to experimental methods for measuring strain and determining stress, including brittle coatings, photoelasticity, electrical resistance strain gages and birefringent coatings. Stress distributions in machine and structural components subjected to various loadings are analyzed both theoretically and experimentally. Prerequisite: CE 215.

ME 470. Thermodynamics II.
Cr. 3. (2 cr. Design) Continuation of ME 370. Topics include combustion principles and cycle optimization using the second law of thermodynamics. Prerequisites: ME 370, 373, and Chemistry 118.

ME 475. Advanced Thermodynamics.**
Cr. 3. (1-2 cr. Design) 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, or the design of heating, ventilating, and air conditioning systems. Prerequisites: ME 370, ME 373, and ME 376.

2+2, Cr. 3. (2 cr. Design) 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 370, 373 and 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 495. Independent Study Project I.
1+3, Cr. 2. (2 cr. Design) The application of theoretical and experimental engineering concepts and mathematical principles in the analysis, design or investigation of engineering systems. Individual problems in the field of mechanical engineering to be selected by the student with the approval of the Mechanical Engineering faculty. Prerequisite: senior classification in Mechanical Engineering, corequisite: ME 253.

ME 496. Independent Study Project II.
1+3, Cr. 2. (2 cr. Design) A continuation of ME 495.
College of Nursing

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 57 credit hours in nursing. Courses in which the student is required to earn a grade of C or better are:

- NUR 208 Professional Role in Nursing 3 Cr.
- NUR 206 Physical Assessment 3 Cr.
- NUR 215 Clinical Application of the Professional Role 4 Cr.

- NUR 220 Primary Care Family 3 Cr.
- NUR 310 U.S. Health Care Systems (Social Analysis) 3 Cr.
- NUR 315 Introduction to Nursing Research 3 Cr.
- NUR 320 Secondary Care of the Parent, Child and Adolescent 5 Cr.
- NUR 330 Secondary Care of the Adult/Long-Lived Adult 4 Cr.
- NUR 340 Secondary Care in Psychiatric Nursing 4 Cr.
- NUR 410 Tertiary Care in the Community 5 Cr.
- NUR 420 Tertiary Care Issues Related to the Family 3 Cr.
- NUR 430 Secondary Care of the Adult/Long-Lived Adult 4 Cr.
- NUR 435 Tertiary Care of the Adult/Long-Lived Adult 4 Cr.
- NUR 440 Tertiary Care in Psychiatric Nursing 2 Cr.
- NUR 450 Nursing Management in a Health Care System 4 Cr.
- NUR 480 Professional Role Practicum 4 Cr.

Total 57 Cr.

B. Arts and Sciences. A minimum of 57 credit hours from the College of Arts and Sciences. Courses in which the student is required to earn a grade of C or better are marked with an asterisk.* The specific requirements are:

- Freshman Seminar 100 3 Cr.
- English 100 Exposition and Argument 3 Cr.
- History 100 The Western World in Global Perspectives 3 Cr.
- Theology 100 Introduction to Christian Theology 3 Cr.
- English 200 Literary Studies 4 Cr.
- Theology Level II and III 6 Cr.
- Academic Area Studies Option (defined on pages 39-40) 3 Cr.
- Physical Education 101-105 1 Cr.
- Non-Western/Third World 3 Cr.
- Chemistry 111, 121, or 131 General Chemistry 3 Cr.
- Biology 151 and 152 Human Biology* 8 Cr.
- Biology 210 Microbiology 4 Cr.
- Home Economics 260 Human Nutrition* 3 Cr.
- Psychology 101 General Psychology* 3 Cr.
- Psychology 201 Statistical Methods* 3 Cr.
- Psychology 330 Child and Adolescent Psychology* 3 Cr.

Total 57 Cr.

C. Electives. In addition to meeting the requirements in Nursing and Arts and Sciences listed above, 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.

One elective must meet the Academic Area Studies requirement of a three credit hour course in one of the areas listed below: Fine Arts or Fine Arts-Literature Foreign Language 102 or 103 Non-Western or Third World Studies Philosophical and Historical Studies Social Analysis

Note: No more than four credit hours in applied music, including ensemble, and no more than four credit hours of Physical Education 101-149 may be applied toward a Bachelor of Science in Nursing degree.

D. Requirements for Admission to Nursing Courses. For admission to the first clinical nursing course, students must attain a minimum cumulative grade point average of 2.00 and no grade lower than C in the courses designated in sections A and B of graduation requirements.

Students are required to present annually evidence of a recent (within the year) physical examination, current immunization status and evidence of normal communication (rubella, mumps, varicella) and current CPR certification or recertification. The College of Nursing does not make arrangements for meeting these requirements.

E. Progression. Students must maintain a minimum cumulative grade point average of 2.00 in all coursework and in the nursing major to remain in the College of Nursing. Students must earn a grade of C or better in courses designated in sections A and B of Graduation Requirements.

A grade of less than 2.00 in any two required courses with a nursing number will result in dismissal from the nursing program. The College of Nursing's Academic Standards Committee reviews petitions of students who request a hearing for appeal of the progression policy.

Senior students will take a State Board Review Course at the College of Nursing before graduation.

Minor. A Nursing student may declare a minor 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 membership in 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 national honor society in nursing. The Zeta Epsilon Chapter was installed at Valparaiso University in 1982.

Suggested Course Program. This suggested schedule of courses represents an orderly sequence for those students who plan to meet degree requirements according to this catalog. Students who wish to fulfill degree requirements for an alternative catalog program should, in consultation with their adviser, refer to the appropriate catalog.

First Semester

- Biology 151 Human Biology I 4 Cr.
- Chemistry 111, 121, or 131 General Chemistry 4 Cr.
- English 100 Exposition and Argument 3 Cr.
- History 100 The Western World in Global Perspective 3 Cr.
- Psychology 101 General Psychology 3 Cr.

Total 16 Cr.

Second Semester

- Biology 152 Human Biology II 4 Cr.
- English 200 Literary Studies 4 Cr.
- Psychology 201 Statistical Methods 3 Cr.
- Freshman Seminar 100 3 Cr.
- Area Studies Option 3 Cr.

Total 16 Cr.

Third Semester

- Biology 210 Microbiology 4 Cr.
- Home Economics 260 Human Nutrition 3 Cr.
- Psychology 330 Child and Adolescent Psychology 3 Cr.
- NUR 205 Professional Role in Nursing 3 Cr.
- NUR 206 Physical Assessment 2 Cr.
- PE 101-105 1 Cr.

Total 16 Cr.

Fourth Semester

- English 200 Literary Studies 4 Cr.
- NUR 215 Clinical Application of the Professional Role 4 Cr.
- NUR 220 Primary Care of the Family 3 Cr.
- Theology II 3 Cr.

Total 17 Cr.

Fifth Semester

- Psychology 201 Statistical Methods 3 Cr.
- NUR 310 U.S. Health Care Systems 3 Cr.
- NUR 315 Introduction to Nursing Research 3 Cr.
- NUR 320 Secondary Care of the Parent, Child and Adolescent 5 Cr.

Total 16 Cr.

Sixth Semester

- Non-Western/Third World 3 Cr.
- NUR 330 Secondary Care of the Adult/Long-Lived Adult 4 Cr.
- NUR 340 Secondary Care in Psychiatric Nursing 4 Cr.
- Theology III 3 Cr.

Total 16 Cr.

Note: Students are responsible for transportation to and from all clinical agencies and for transportation associated with home visits. The College of Nursing uses a variety of accredited health facilities to provide broad clinical experience for students; consequently, access to a car is necessary in most clinical courses.

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 Biology 151, Biology 152, and Chemistry 111.

NUR 205. 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. Physical Assessment.

1+3. Cr. 2. 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 215. Clinical Application of the Professional Role.

2+4. Cr. 4. 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 nurse's role as caregiver, teacher, researcher, and lifelong learner.

NUR 220. Primary Care of the Family.

2.5+1.5. Cr. 3. Focuses on promotion and maintenance of health care for the family.

NUR 260. Transition to Professional Nursing I.

Cr. 4. Concepts relevant to professional nursing are discussed. Nursing process, interpersonal communication skills, research process, teaching-learning theory, and leadership theories are included. Prerequisite: Registered Nurse Status.
NUR 261. Transition to Professional Nursing II.
3+3, Cr. 3. Clinical application of concepts relevant to professional nursing. Prerequisite: concurrent enrollment in N 260.

Note: Prerequisites for the following courses are NUR 205, 206, 215, 220, 260, 261, and at least junior standing, which includes completion of Biology 210.

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, manpower, financing, federal and state legislation, the political process, and health care ethics. Fulfills social analysis requirement for nursing majors.

NUR 315. Introduction to Nursing Research.
Cr. 3. A study of scientific 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 316. Global Health Issues.
Cr. 3. Provides the student with an opportunity to explore health issues in a global perspective. Health issues that may be discussed are basic needs for health, nutrition, preventing diseases, health care delivery, and preparation of health care workers. No prerequisite. May be used to fulfill the Non-Westem/Third World course requirement.

NUR 320. Secondary Care of the Adult. Long-Lived Adult I.
3+3, Cr. 4. Study and practice of the nursing care of young, middle and long-lived adults. The course examines the responses of adults of all ages and their families to health problems and hospitalization.

NUR 321. Cooperative Education in Nursing.
Cr. 1-3. Application of the concepts of professional nursing in a health care setting. Requires satisfactory work performance for a prescheduled employer and submission of a final project. Prerequisite: NUR 215. May be taken on S/U basis.

NUR 329/429. 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: junior or senior standing, consent of the instructor and the adviser.

NUR 340. Secondary Care in Psychiatric Nursing.
3+3, Cr. 4. Study and practice in the nursing care of clients experiencing psychiatric disturbances with an emphasis on secondary care.

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. Open to all students with advanced standing. May be used for the Human Aging Minor.

Cr. 1-3. Focuses on 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 385. Primary Care in the Community.
3.5+4.5, Cr. 3. An overview of management, 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 primary care.

NUR 410. Tertiary Care Issues Related to the Famlly.
Cr. 3. Study of the family at risk. The course focuses on long-term health problems of children, exceptional children, terminally ill children, legal and ethical issues of reproductive health care, and psychosocial problems of individuals and families.
INTERCOLLEGIATE 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.

Applied Statistics Minor

Administrative Committee: Assistant Professor Ozgur (Decision Science-College of Business Administration, Chair); Associate Professor Hull (Mathematics); Assistant Professors Shingleton (Economics), Strasser (Decision Science-College of Business Administration).

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 total of 15 credit hours is required to complete this minor. Students who intend to complete this minor are strongly encouraged to consult their academic adviser before they begin their junior year. Depending on their major, students are advised to include specific courses as electives in their plans of study. Students should consult their academic advisers to determine which requirements these other courses fulfill. There may not be more than a total of two course overlap with other requirements whether within general education or within a major or a minor.

Students in the minor must complete the requirements for a degree program and the following courses:

- Decision Science 205 Business Statistics or Mathematics 240 Statistical Analysis .............................................. 3 or 4 Cr.
- Decision Science/Mathematics 340 Probability for Decision Making or Economics 328 Econometrics .............................................. 3 Cr.
- Mathematics 262 Vectors and Linear Algebra* .............................................. 3 Cr.
- Mathematics 344 Applied Probability and Statistical Decision Theory** .............................................. 3 Cr.
- Economics/Decision Science/Mathematics 493 Seminar in Applied Statistics .............................................. 3 Cr.
- Total .............................................................................. 15 Cr.

*Mathematics 234 or Mathematics 264 may be substituted for Mathematics 262.
**Program 2 mathematics majors may substitute Mathematics 341 for Mathematics 344.

Ethnic Studies Minor

Administrative Committee: Professor Piel (Christ College, Chair); Professors Berg (History), Janke (Geography), J. Peters (Foreign Languages); Associate Professor Venturrelli (Sociology), Walton (Social Work); Assistant Professor Kunnie (Theology).

An area minor in Ethnic Studies may be presented in partial fulfillment of the Major Field Requirements for the Bachelor of Arts degree (see page 41).

Objectives. The Ethnic Studies minor offers an interdisciplinary perspective on race, ethnicity, and culture, especially 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 multicultural world.

Requirements. A minimum of 15 credit hours constitutes the minor.

Program Core

- History 225 Alternative Perspectives of United States History: Racial Minorities and Mainstream America or English 365 American Ethnic Literature .............................................. 3 Cr.

Elective Courses

- Economics 233 Economics of Race and Gender .............................................. 3 Cr.
- English 365 Fiction by American Women (designated sections) .............................................. 3 Cr.
- Geography 174 North American Indian Geography .............................................. 3 Cr.
- Geography 210 American Ethnic Geography .............................................. 3 Cr.
- History 322 Slavery, Abolitionism, and Sectionalism .............................................. 3 Cr.
- History 323 Civil War and Reconstruction .............................................. 3 Cr.
- Music 101 Introduction to Music .............................................. 3 Cr.
- Social Work 210 Social Welfare: Policy and Services .............................................. 3 Cr.
- Social Work 340 American Minority Lifestyles and Human Rights .............................................. 3 Cr.
- Sociology 160 Contemporary Social Problems (approval by committee with consultation with instructor required) .............................................. 3 Cr.
- Sociology 347 Race and Ethnic Relations .............................................. 3 Cr.
- Theology 337 Black Theology and Black Church .............................................. 3 Cr.
- Theology 356 Christian Response to Social Victims .............................................. 3 Cr.
- Theology 368 American Indian Religions .............................................. 3 Cr.

Additional courses for the minor will consist of topics courses and departmental seminars, each of which must be approved and will be publicized by the administrative committee. Students wishing to use a course not listed must have the course approved by the administrative committee prior to enrolling in the course. No more than one course at the 100 level may apply towards the minor. At least two of the courses applying towards the minor must be at the 300 level or above. There may not be more than a total of two course overlap with other requirements whether within general education or within courses in any major or other minors.
Gender Studies Minor

Administrative Committee: Associate Professor Kenyon (Sociology) and Associate Professor Sandock (English), Co-coordinators; Associate Professors Corrazo (Art), DeBerg (Theology), Logothetis (Nursing), Moore (Theology), Rubchak (History), Sederberg (Sociology); Assistant Professors Bhattacharyya (English), Merchant (Social Work).

An area minor in Gender Studies may be presented in partial fulfillment of the Major Field Requirements for the Bachelor of Arts degree (see page 41).

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 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. There may not be more than a total of two course overlaps with other requirements whether within general education or within courses in any major or other minors. Each student must take SOC 340 Gender, plus one additional 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
  - Sociology 340 Gender 3 Cr.

- Social and Life Sciences
  - Economics 233 Economics of Race and Gender 3 Cr.
  - Psychology 390 Topics: Psychology of Women 3 Cr.
  - Sociology 220 The Family 3 Cr.
  - Nursing 322 Women and Their Health 3 Cr.

- Humanities and Fine Arts
  - History 390 Topics: The Great Witchcraft Delusion 3 Cr.
  - Theology 326 History of Women in the Church 3 Cr.
  - Theology 343 Theology of Marriage and Sexuality 3 Cr.
  - Christ College 300 Love and Friendship 3 Cr.

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: Assistant Professor Pepa (Nursing, Chair); Associate Professors G. Evans (Home Economics), Senne (Theology); Assistant Professors Byers (Sociology), Nelson (Psychology), Weinger (Social Work).

A minor in Human Aging may be presented in partial fulfillment of the Major Field Requirements for the Bachelor of Arts degree (see page 41).

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 lifespan 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. Four courses (12 credit hours) must be taken from the required Core Courses list. 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 Psychology (course psychology program), Social Work 390 (Social Work Colloquium), and Sociology 487 (Internship in Sociology).

Program Core
- Psychology 332 Psychology of Adulthood and Aging 3 Cr.
- Sociology 327 Aging in American Society 3 Cr.
- Theology 359 Theology of Aging 3 Cr.
- Nursing 351 The Aging Process 3 Cr.

Elective Courses
- Communicative Disorders 311 Speech Pathology: Adults 3 Cr.
- Communicative Disorders 350 Basic Audiology 4 Cr.
- Communicative Disorders 351 Aural Rehabilitation 3 Cr.
- Home Economics 260 Human Nutrition 3 Cr.
- Home Economics 460 Advanced Nutrition 3 Cr.
- Social Work 410 Analysis of Social Policy 3 Cr.
- Theology 354 Understanding Death and Dying 3 Cr.
- Theology 356 Christian Response to Social Violence 3 Cr.
- Nursing 310 U.S. Health Care Systems 3 Cr.

The courses in Communicative Disorders and Home Economics are being phased out during 1994-1996. Please see the departmental listings for the last time these courses will be offered.

Liberal Arts Business Minor

Administration. This program is administered by the Dean of the College of Arts and Sciences.

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
- Economics 221 Economics - Micro 3 Cr.
- Accounting 205 Financial Accounting 3 Cr.
- Psychology 257 Business Communication or Accounting 206 Managerial Accounting or Economics 222 Economics - Macro 3 Cr.
- General Business 206 Legal Environment of Business 3 Cr.
- Marketing Management 304 Marketing Management 3 Cr.
- Business Administration 304 Management and Administration of Business 3 Cr.
- Financial Management 304 Financial Management 3 Cr.

Total 21 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.

The 15-18 credit hours 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 50).

Upon completion of the minor, the designation, "Liberal Arts Business Minor," is placed on the student's transcript.
Business students must complete the requirements for a degree program within the College of Business Administration and these courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decision Science 305</td>
<td>Production/Operations Management</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Decision Science 320</td>
<td>Management Science</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Decision Science 340</td>
<td>Statistics for Decision Making</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Accounting 320</td>
<td>Cost Accounting</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Mechanical Engineering 354</td>
<td>Manufacturing Processes</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Mechanical Engineering 457</td>
<td>Production Operations and Systems</td>
<td>2 Cr.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16 Cr.</td>
</tr>
</tbody>
</table>

The 16 credits earned for the minor by business students may be applied toward the 125 credits required for graduation. Before taking the minor requirements, students must advance to upper division.

Engineering students must complete the requirements for a degree within the College of Engineering and these courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decision Science 305</td>
<td>Production/Operations Management</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Decision Science 320</td>
<td>Management Science</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Mechanical Engineering 253</td>
<td>Manufacturing Processes</td>
<td>4 Cr.</td>
</tr>
<tr>
<td>Mechanical Engineering 456</td>
<td>Robotic/Automation Systems</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Mechanical Engineering 458</td>
<td>Production Operations and Systems</td>
<td>3 Cr.</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16 Cr.</td>
</tr>
</tbody>
</table>

No more than seven hours of all specific courses required for an engineering program, excluding free electives, may be used in fulfilling the requirements for this minor.
SCHOOL OF LAW

Edward McGlynn Gaffney, Jr., LL.M., Dean
David E. Vandercoy, LL.M., Associate Dean
Curtis W. Ciichowski, J.D., Assistant Dean

Professors R. Baepler, Berner, Blomquist, Bodenstein, Brietzke, Ehren, Gaffney, Hatcher, Hiller, Levinson, Lind, Moskowitz, Myers, Potts, Smoot, Stith, Vandercoy, Yonover; Associate Professors Brockington, Carter, Dooley, Persyn, R. Vance, Whiton; Assistant Professor Strubel.

For more than a century, the School of Law of Valparaiso University has sent its graduates into private and corporate practice as well as government service.

The School was founded in 1879 as the Northern Indiana Law School and became a part of Valparaiso College, now Valparaiso University, in 1905. By keeping pace with advances in legal education and the legal profession, the School of Law has outgrown three buildings since 1905. The School of Law moved into Wesemann Hall, a new and comprehensive facility located on the wooded western edge of campus.

By limiting enrollment, the School provides a learning environment where the rigors of legal education can be experienced with the help of careful guidance and support by the faculty. The School seeks a sense of community among individuals with mutual interests working together toward shared objectives. Together with these values, the School respects each person's individuality and the importance of analytic, conceptual and interpersonal skills in the training of new lawyers. Classes range from small seminars with fewer than ten students, to large classes conducted according to the traditional Socratic method with approximately eighty students. As a law school in a church-related university, it seeks to manifest concern for the total needs of its students and awareness of the problems faced by society and the profession.

The School was approved by the American Bar Association in 1929 and since that time it has been accredited continuously by that association. In 1930, it was admitted to membership in the Association of American Law Schools. The degree of Juris Doctor, which is granted by the School of Law, is approved by the Board of Regents of the University of the State of New York.

The School offers both the traditional three-year, full-time curriculum and a five-year, part-time program. Detailed information concerning the School's admission policies, costs and curriculum can be found in the School of Law Bulletin, which may be obtained at the Office of Law Admissions at the School of Law: 1-800-262-0656; or 219/465-7829.

SUMMER SESSION

EVENING PROGRAM

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. Until the summer of 1992, these were usually referred to as "mini-session" courses. The dates for Summer I in 1995 are May 23 - June 30, and for Summer II are July 5 - August 11. 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 purposes: 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, high school graduates beginning their college careers early and other interested persons who would like to take course work 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 the amount of credit that can be earned during the fall or spring semester. Students enrolled in a two or four-week intensive course may not be simultaneously enrolled for any other course.

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. 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.

In 1993, Valparaiso University announced the inception of the three-year baccalaureate degree program. This program offers students in selected programs the opportunity to complete their degree in three years by careful planning and the utilization of summer sessions. Students must apply for participation in the spring of their freshman year to make certain that they have the proper advising to complete their program as planned. Students should contact their academic advisor or the Office of the Dean of the College of Arts and Sciences for more information.
The Evening Division is designed to serve the needs of employed adults who desire to work toward a college degree or take courses for self-improvement. Evening courses are the same in content, objectives and credit hours as corresponding day courses.

Through the Evening Division, the University offers selected majors and minors for adult students who wish to complete a baccalaureate degree. Students who desire to complete a major that is not offered in the evening may use the Evening Division to complete their general education courses and then transfer to the day division. Students who wish to complete a degree in the Evening Division must work closely with their adviser to develop a plan of study.

Students with previous college work will normally require seven years attending year round on a part-time basis to complete their general education, major, and minor requirements.

Students should consult with the Office of Continuing Education for information about the majors and minors that can be completed through the Evening Division. Since the Evening Division program has been developed with the adult, working student in mind, the courses necessary to complete the major are offered so that a major can ordinarily be completed on a part-time basis over a four-year period. Students who wish to complete a major in less time must consult with their academic adviser to determine whether this is feasible. Minors can normally be completed in two or three years, depending on the minor.

Furthermore, it is assumed that students who wish to complete their work within these periods will take courses during the fall, spring and summer terms.

Admission to the Evening Division
Application to the Evening Division is made through the Office of Continuing Education. Students who are twenty-five years or older, or who have interrupted their formal education for more than three years, are eligible to apply for admission to the Evening Division. Students who do not meet these criteria but wish to be admitted to the Evening Division should consult with the Dean of Continuing Education. In addition, students must complete an application, present proof of graduation from high school (diploma, transcript, or G.E.D.), official transcripts of all previous collegiate work, and have a predmission interview with an Evening Division counselor. Submission of a high school transcript is useful for advising purposes by not necessary. College board scores are not required. The final decision for admission to the Evening Division rests with the Dean of Continuing Education, whose decision will be based on a judgement of the student’s ability to benefit from the program.

Registration in the Evening Division
Registration in the Evening Division for those adult students taking evening courses only is conducted according to the schedule announced in the brochure published in advance for each semester.

Matriculated undergraduate day students may register for up to six credit hours in the evening Division, provided that their total course load in evening and day courses does not exceed the maximum load permitted (page 191). Any undergraduate student who registers for a given semester in both day and Evening Division undergraduate courses is considered to be a day student and is charged the regular tuition and fees applicable to a day student for all courses. Graduate students who register for undergraduate courses are charged the appropriate graduate rate for undergraduate courses and the appropriate graduate rate for graduate courses.

The Schedule of Classes bulletin lists all courses offered by all departments of the College of the University in numerical order with evening course sections indicated by "EV."

Admission

Formal application for admission on a form provided by the Admissions Office may be filed at any time, but it 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, which is non-refundable. Applications for admission to undergraduate programs are sent to the Admissions Office. For admission to the School of Law, consult the bulletin of the School of Law. For admission to the Graduate Division, consult the bulletin of the Graduate Division.

General Requirements

Valparaiso University admits those candidates who demonstrate potential for success in rigorous academic work. Qualified applicants are admitted regardless of sex, handicap, race, color, age, veteran status, or national origin. The credentials of each applicant are individually evaluated, with consideration given to academic record, entrance examination scores, character, personality and evidence of motivation for college studies. The University reserves the right to deny admission to any applicant.

To provide uniform predictive norms, the University requires candidates for admission to the freshman class to take either the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board or the ACT Assessment of the American College Testing Program (ACT).

The applicant should be a candidate for graduation from an approved secondary school or possess a state high school equivalency certificate.

Valparaiso University's course selections offer flexibility and attention to individual talents and needs; therefore, no one specific high school program is required of all applicants. However, a student planning to attend the University should take the strongest possible college preparatory program available. A minimum of four years of English, three years of mathematics (algebra and geometry), two years of social studies, two years of laboratory sciences and two
years of a foreign language are strongly recommended.

SPECIAL REQUIREMENTS
In addition to the above general requirements, the following colleges have additional requirements.

College of Business Administration. Students should have a minimum of two years of high school algebra and one year of geometry. It is strongly recommended that students take a fourth year of mathematics, pre-calculus or calculus, and be enrolled in a mathematics class during the senior year of high school. Students with less than the recommended background in high school may wish to strengthen their preparation with a summer mathematics class either at Valparaiso University or at another college.

College of Engineering. At least three and one-half years of mathematics including one and one-half years of algebra, one year of geometry and one-half year of trigonometry (business, general or shop mathematics may not be counted); and one year of either chemistry or physics with regular laboratory work. These requirements are the minimum; applicants are urged to take four years of formal mathematics and both chemistry and physics.

College of Nursing. The laboratory sciences should include chemistry and biology; a second year of biology is strongly recommended.

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 stimulating inter-disciplinary study. Students enrolled in Christ College are concurrently enrolled in one of the University’s four other colleges.

SPECIAL STUDENT STATUS
An undergraduate applicant who is not admitted as a regularly classified student, but who is working toward a baccalaureate degree, may be admitted as a special student. Registered nurse students and international transfer students are generally admitted with special student status. The appropriate classification can be determined.

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 pre-condition 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 the Evening Division and Summer Session are admitted as special, non-matriculated students. For a change from this status to classified, degree-seeking student status, a formal application 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 thirty nations are represented in the University's international student population.

Application and Fee. The completed undergraduate application, together with a check for $50.00 payable to Valparaiso University, should be returned to the Admissions 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:
1. Academic records. Certified, official transcripts (original and English translation) of all secondary and university courses which have been completed or attempted;
2. Proof of English proficiency. Successful completion of the INTERLINK program, satisfactory score (550) on the Test of English as a Foreign Language (TOEFL), or the equivalent is required for admission. For information about the INTERLINK Program, write to INTERLINK, Valparaiso University, Valparaiso, IN 46383-6493, U.S.A. For information on the TOEFL, write to TOEFL, Box 889, Princeton, NJ 08540, U.S.A.;
3. Affidavit of Financial Support. The University is required by the Immigration and Naturalization Service to determine that international applicants have sufficient financial resources to cover all their expenses while in the United States. A notarized statement of this financial support must be submitted;
4. Health Statement. A statement from a physician that the applicant is in good health.

Transfer Students. To receive credit for college-level work successfully completed outside the United States, the applicant is charged a fee of $150.00 for the professional evaluation of that work. This fee must accompany the transcript or certified copy and must be received at least three months before enrollment at Valparaiso University. A syllabus or detailed description of this work should be included.

English Proficiency. In addition to the proof of English proficiency which accompanies the application, Valparaiso University also requires that all international students whose native language is not English take an English proficiency test after arriving on campus. The results of this test are used to place students in the proper English course and to assist advisers with other course selections.

Intensive English Language Program. The INTERLINK program on the campus of Valparaiso University provides intensive English language training, cultural orientation, and academic preparation for qualified international students, scholars, and professionals preparing to study and work in the United States. The program emphasizes cultural awareness and interpersonal skills necessary for successful academic and social adjustment to life at a university in the United States. Its curriculum focuses on reading, writing, grammar, listening, conversation, pronunciation, and study skills.

Admission to the program is open to adults who have completed secondary school in good standing and are able to meet their educational and living expenses.

Full-Time Enrollment. All international students who are studying on F-1 visas are required by the Immigration and Naturalization Service to successfully complete at least 12 credit hours per semester; otherwise, the continuation of study on the F-1 visa is jeopardized and the visa may be revoked. All decisions to withdraw from a course, to take a leave of absence, or to transfer to another school should first be discussed with the International Student Adviser.

Tuition. See page 208 in this catalog.

Financial Aid. Valparaiso University has no need-based financial aid available for international students.

Health Insurance. Valparaiso University requires that all international students purchase or show that they have health insurance in order to help pay for major medical expenses. The health insurance coverage must be kept active as long as the student is enrolled at the University.

For further information regarding admission of international students, please write to Director of International Studies, Valparaiso University, Valparaiso, IN 46383-6493, U.S.A.

Housing Application
An application for University housing ("Intent to Enroll 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. A student who occupies a room in a University residence will have $150.00 of the deposit credited toward the housing and the remaining $50.00 toward tuition and fees.

Advanced Standing By Examination
By incorporating four examination programs within its credit-granting structure, Valparaiso University enables students to earn credit and advanced standing for college-level knowledge obtained before enrolling.

Such credit may be earned through satisfactory scores on the Advanced Placement Examination, the College Level Examination Program of the College Entrance Examination Board, the International Baccalaureate Program, or through the University's own Placement Program. Credit earned by examination may achieve advanced standing, meet General Education Requirements, and accelerate 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.

ADVANCED PLACEMENT PROGRAM (AP) OF THE CEEB
Applications for admission who take one or more of the Advanced Placement (AP) Examinations in May will receive credit toward a degree for scores of 5 and 4; in some departments scores of 3 earn credit. AP examinations must be taken before enrollment as a full-time student at Valparaiso University. For more information contact the Admissions Office.
Admission, Registration, Academic Policies

**COLLEGE LEVEL EXAMINATION PROGRAM (CLEP) OF THE CEEB**

The CLEP program provides an opportunity for students to gain college credit for those individuals who, through experience, independent study or enriched high school courses, have attained college-level knowledge in a particular field. It is not recommended that these examinations be taken only on the basis of normal high school courses. Information and test center locations can be obtained from College Entrance Examination Board, Box 1822, Princeton, NJ 08541.

Valparaiso University awards credit for CLEP General Examinations in English, Humanities, Social Science-History and Natural Science, subject to the following conditions:

1. The General Examinations must be taken before matriculation at Valparaiso University.
2. Credit for a CLEP General Examination may not be applied to a major or to any specific course requirement except as listed below.
3. Credit for a CLEP General Examination is valid only if no other credit by examination is awarded in courses applicable in the same area of general education.
4. A score of 500 or above on the English General Examination entitles a student to three credits for E 100.
5. A score of 500 or above on the Humanities General Examination entitles a student to four credits in the area of Fine Arts or Fine Arts-Literature.
6. A score of 500 or above on the Social Science-History General Examination entitles the student to three credits in the area of Social Analysis.
7. A score of 500 or above on the Natural Science General Examination entitles a student to four credits in the area of Natural Science. No credit is awarded in Mathematics for the general examination. A student who applies for credit to the General Education Requirement in Natural Science and Mathematics is expected to complete at least one laboratory course in science.

Valparaiso University awards credit for CLEP Subject Area examinations as indicated in the separate departmental listings. Credit for Subject Area examinations is awarded only if the examination is taken before the student enrolls in the specific college-level course for which credit by examination is sought.

**INTERNATIONAL BACCALAUREATE**

In addition to recognizing the International Baccalaureate Diploma as a basis for admission to the University, the University will award college credit or advanced placement or both based on scores earned on the Higher Level Examinations.

**UNIVERSITY PLACEMENT TESTING**

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, chemistry, foreign languages and mathematics, as explained in the listings for those departments. Full information on AP, CLEP and Valparaiso University Placement can be obtained from the Office of the Dean of the College of Arts and Sciences.

**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 session for which they are applying and must present complete transcripts of all work done. Transfer students will not be admitted to Valparaiso University until official transcript(s) and other required credentials are on file in the Office of Admissions. After the applicants’ records are evaluated, they 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 credits transfer.

For students in the College of Business Administration, see page 156. For registered nurses in the degree completion program of the College of Nursing, see page 181.

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 106 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.

**A. 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 may apply a maximum of six credits in theology from their advanced standing to the theology requirement. Otherwise, transfer students with more than 45 credits but less than 75 credits of advanced standing need to complete two courses (six credits) of theology at Valparaiso University. Transfer students with 75 credits or more of advanced standing need to complete one course (three credits) of theology at Valparaiso University. One course in theology must be taken at Valparaiso University. Students who transfer into the University with 24 or more semester hours of credit are excused from the freshman seminar requirement.

**B. 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></td>
</tr>
<tr>
<td>(except as required in special authorized curricula)</td>
<td></td>
</tr>
<tr>
<td>College of Business Administration</td>
<td></td>
</tr>
<tr>
<td>College of Engineering</td>
<td></td>
</tr>
<tr>
<td>(except in approved block schedules)</td>
<td></td>
</tr>
<tr>
<td>College of Nursing</td>
<td></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 full-time status be maintained. Students who have not been full-time students must petition to be full-time. 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 which the course is offered. Forms are available in 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 exception to a deadline may be addressed to the Dean of the appropriate college; such a petition must be accompanied by supporting reasons for its presentation. Petition blanks are provided 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 effect, themselves, sufficient reasons for petition.

Students may officially cancel enrollment in a course during the first six class days without reflection on their permanent record. All requests for adding a course during the first six class days remain at the discretion of the appropriate academic dean or department chair. From 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>A+</td>
<td>4.0</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
</tbody>
</table>
| D     | less than satisfactory, but passing | 1.3
| D-    | 1.0                |
| failure | 0.0              |
| I      | incomplete         |
| W      | authorized withdrawal |
| S      | satisfactory        |
| U      | unsatisfactory      |

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 standing of C (2.00 grade point average) 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 completing the remaining work 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 a student 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 Vice President 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 exposure. 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, normally letter graded (i.e., A to F), each 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 pre-professional 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 advisor.
3. A decision to elect a course on SU basis must be made by the end of the fourth full week of the semester for courses of usual length. After this deadline, the SU grading basis may not be changed. This deadline applies proportionately to Mini, Summer Session or seven-week courses.

NOTE: In selection of the SU option, students are strongly advised to discuss the implications of that option with their advisor 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 advisor 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.

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 SU. 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.

CLASSIFICATION OF A STUDENT

In the College of Arts and Sciences, College of Business Administration and College of Nursing, a student must have 24 semester credits and 48 quality points to be classified as a sophomore; 56 semester credits and 112 quality points to be classified as a junior; 88 semester credits and 176 quality points to be classified as a senior.

In the College of Engineering, a student must have 24 semester credits and 48 quality points to be classified as a sophomore; 60 semester credits and 120 quality points to be classified as a junior; 94 semester credits and 188 quality points to be classified as a senior.

A student in the School of Law should consult that School's bulletin.

SEMMESTER GRADE REPORT

Such a report is sent only to the student and only to the 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.

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 500-698
- Graduate only courses, numbered 700-999

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 have interrupted their studies for whatever reason.

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 any other accredited educational institution must apply for readmission to the University through the Readmissions Committee. The request for readmission is to be sent to the Registrar. Exceptions 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-service training. (Cooperative Program work semesters and off-campus special semesters are considered to be continuation of study, for which students 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. The application must be accepted in this time period.

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.

ADMISSION, REGISTRATION, ACADEMIC POLICIES
Admission, Registration, Academic Policies

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 205.

DECLARATION OF A MINOR IN THE PROFESSIONAL COLLEGES

Students in the professional colleges may declare a minor in the College of Arts and Sciences and may have this minor noted on their official transcripts. No more than six hours (seven in the College of Engineering) required of the professional program may be used in fulfilling a minor offered by the College of Arts and Sciences.

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 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 205.

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.

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 make-up work may be required.

WITHDRAWAL FROM THE UNIVERSITY

For the School of Law, consult that School’s bulletin.

Students who wish to withdraw from the University for the remainder of a semester or session must apply to the Vice President for Student Affairs before the deadline date for a permit to withdraw (see catalog 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 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 advisor 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, must fulfill all the specific course requirements for the second degree.

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 standing of 2.00 or more in all their work at Valparaiso University. In addition, candidates for a bachelor’s degree must have a standing 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 standing 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 (minimum of 15 credit hours in the area of foreign
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 Handbook.

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.

With regard to transcripts of academic records, the University's policy covering "dependency" determination is to consider all undergraduate students in the day program as "dependent," unless they specifically inform the Registrar's Office in writing at the beginning of each academic year that they consider themselves to be "independent."

Official transcripts of academic records are released only upon the written request of the student.
TUITION AND FEES
EXPENSES
HOUSING REGULATIONS
REFUNDS

Tuition

Undergraduate and Professional Tuition, Full-Time Students

Academic Year (Two Semesters)

VU College of Arts and Sciences
$8,900.00 $11,800.00
College of Business Administration
5,900.00 11,800.00
College of Nursing* 6,380.00 12,780.00
School of Law 6,965.00 13,830.00

*Optional Guaranteed Tuition Program for Engineering Students. As an option to the standard tuition, Valparaiso University adopted a Guaranteed Tuition Program that guarantees entering engineering students tuition for 12 or more undergraduate credit hours per semester.

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 $170.00 per semester for course 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 Day Students, Undergraduate and Professional Programs

Students who register for less than 12 credit hours are classified as part-time students. Such students pay a tuition charge of $500.00 per credit hour except in the School of Law. For the School of Law, see the appropriate bulletin. This charge does not include the use of facilities of the health service or participation in the student insurance plan.

Auditors pay $500.00 per credit hour equivalent.

Tuition and fees for students enrolled only in courses in the Evening Division offered by the University are listed in a separate publication. Any student who registers for a given semester in day and Evening Division classes is considered to be a day student and is charged the regular charges applicable for a day student. A day student may not take more than 6 credit hours in the Evening Division program.

Tuition charges for certain special programs for registered nurses sponsored by the College of Nursing may be determined by contacting the Dean, College of Nursing, or the Office of Admissions.

SPECIAL FEES

Application—$30.00. This fee is paid 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—$50.00. This fee is required of all new students, both resident and commuter. For the School of Law, see the appropriate bulletin. A refund of $25.00 is given if a written notice of cancellation is received before July 15 for the fall semester or before December 1 for the spring semester.

Housing Deposit—$200.00 ($250.00 for returning students). This fee is required of all students requesting University housing. In case of cancellation, see Refunds on page 212.

Nursing Liability Insurance—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.

Vehicle Registration—$25.00 per year.

Study Abroad, Cambridge, England—$800.00. Each participant pays this fee.

Study Abroad, Reutlingen, Germany—$850.00. Each participant pays this fee.

Study Abroad, Puebla, Mexico—$850.00. Each participant pays this fee.

Study Abroad, Hangzhou, China—$500.00. Each participant pays this fee.

Study Abroad, Namibia—$400.00. 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 to the University, financial or otherwise.

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 Dean of Men or Dean of Women.

International Student Transfer Credit Evaluation—$125.00. 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.
Expenses

An estimate of normal expenses for a semester in each college is given below.

<table>
<thead>
<tr>
<th>College and Category</th>
<th>Average Cost Per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts and Sciences</td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td>$6900.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>225.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>1630.00</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>200.00</td>
</tr>
<tr>
<td></td>
<td>$7955.00</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td>$6900.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>225.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>1630.00</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>200.00</td>
</tr>
<tr>
<td></td>
<td>$7955.00</td>
</tr>
<tr>
<td>College of Engineering</td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td>$6965.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>225.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>1630.00</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>250.00</td>
</tr>
<tr>
<td></td>
<td>$9070.00</td>
</tr>
<tr>
<td>College of Nursing</td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td>$5900.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>225.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>1630.00</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>250.00</td>
</tr>
<tr>
<td></td>
<td>$8005.00</td>
</tr>
<tr>
<td>School of Law</td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td>$6965.00</td>
</tr>
<tr>
<td>General Fee</td>
<td>215.00</td>
</tr>
<tr>
<td>Rent of Room and Board</td>
<td>250.00</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>300.00</td>
</tr>
<tr>
<td></td>
<td>$7480.00</td>
</tr>
</tbody>
</table>

Estimated expenses for room and board are based upon a minimum meal plan buy-in of $650.00 per semester and double occupancy room rent of $980.00 per semester. It is suggested that students purchase their tuition and fees in the College Stores. Each academic year (two semesters) is approximately twice the above semester figure.

Clothing, travel, incidental expenses, fees for performance music lessons and special fees (page 209) are not included in these estimates.

Amounts due the University are payable in full at the time of registration for each semester.

Parents and students are billed approximately three weeks before registration with an invoice containing the estimated charges for the coming semester. Either the plan for payment or evidence of payment must be received in the Student Accounts Office one week before registration. The minor adjustments in the billing required by additional course fees, for example, are detailed in a statement forwarded to parents and students appearing on the Housing Agreement. The deferred payment plan as outlined below must be received in the Student Accounts Office one week before registration. The minor adjustments in the billing required by additional course fees, for example, are detailed in a statement forwarded to parents and students appearing on the Housing Agreement. Credits for scholarships, loans, grants, etc., may be deducted in arriving at the balance due before registration.

Amounts to be earned through campus employment may not be deducted, as these are paid during the course of the semester directly to the student through the University's payroll procedures. Each student registering at Valparaiso University assumes responsibility to pay all college-related expenses not covered by financial aid.

Students who withdraw from the University must make arrangements to meet all outstanding financial obligations to the University. Examples of such obligations are tuition and fees, room and board, library fines, health fees, etc. 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.

A degree is conferred upon and no transcript is given for a student whose account with the University or the Student Senate 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 fail in arrears on payment of these loans.

EDUCATIONAL EXPENSE PAYMENT PLANS

Valparaiso University participates in a deferred payment plan for the convenience of those students and parents who 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.

Housing Regulations

The University's regulations require all freshmen, sophomores and juniors to live in University residence halls. Class standing is determined by student classification policy, page 202. Exceptions are made for veterans, those who will be 21 before the next January 1, those living with their parents or spouse, sophomores and juniors who live in the Foreign Language House, and sophomores and junior fraternity men who live in a fraternity house. 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 or in the Foreign Language House during the spring semester.

Senior students may apply to live in University residence halls. Senior, graduate and law students may examine, in person, in the Housing Office 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 non-discrimination statement. The University is not involved in arrangements between students and landlords, except in the event of racial discrimination.

Application. An application form for University housing is mailed to each new student with the Intent to Enroll form. 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 residence hall will have $50.00 credited to his or her account for the intent deposit.

All returning students who are required to live in University residence halls according to University housing regulations must complete an Upperclass Housing Agreement form and make an advance room deposit of $50.00 at the Business Office or on or before the housing deadline indicated by the Business Office.

Assignment Policy. New freshman and transfer student assignments are made by the Housing Office in the order in which their Intent to Enroll forms and deposits are received according to space availability. Returning upperclass student assignments are made by the Housing Office according to student classification. Seniors have first choice, then juniors, then sophomores. In those halls where the number of applicants exceeds the number of spaces available, assignment is made by lottery. All Upperclass Housing Agreements received before the deadline indicated by the Business Office have equal consideration under this system within the limits of student classification, and if a lottery is necessary, the laws of chance prevail.

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 Housing Office.

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. One-half of the deposit is refunded if notification of cancellation is received between May 2 and July 15 for full semester or between November 2 and December 15 for spring semester. No refund will be given if enrollment cancellation notice is given after these respective dates.

Refunds—Returning Students. The full deposit is refunded if written notice is given to
Tuition and Fees, Expenses, Housing Regulations, Refunds

the Housing Office on or before the application deadline. One-half of the housing deposit is refunded if written notice of cancellation is received by the Housing Office on or before July 1 for the fall semester, or on or before December 1 for the spring semester. No refund is given if cancellation is given after July 1 for fall semester and December 1 for spring semester. The Upper Class Housing Agreement may not be cancelled after July 31 for fall semester and December 31 for spring semester by students not required to live in University housing.

If a student is denied readmission or if the University should be unable to provide housing, the full amount of the deposit will be refunded.

Occupancy. An agreement is entered into by all students who are assigned University housing which makes it mandatory for them to occupy the residence hall space assigned for both semesters of the school year excluding vacation periods. Students are permitted to move out of the residence hall only if they withdraw from the University or graduate.

Roommate. Preferences should be listed on the housing application. Freshmen are notified in July of their roommate assignments. The specific room number in the residence hall is given when the student arrives on campus.

Arrival at the residence hall for new freshmen and new transfer students should coincide with the first day of orientation activities, to be announced later. All students are expected to report immediately to their assigned residence halls when they arrive on campus for specific room assignment.

Furnishings. All rooms in the University residence halls are provided with the necessary basic furniture. Occupants supply their own bedding, pillows, towels, lamps and throw rugs if desired. Coin-operated washers and driers and ironing boards are also provided within each residence hall. Several laundries and dry cleaning establishments are located adjacent to the campus. Draperies are provided. Further information is available from the Housing Office.

University residence halls are staffed by Resident Directors.

All students residing in University owned residence halls are financially responsible for damage to rooms and equipment. Residence Hall Directors report such damage to the Business Office and the student or the parent is billed for the cost of repair or replacement.

DINING FACILITIES

The University operates dining facilities in the Valparaiso Union and selected residence halls for the convenience of the students. Service is available during periods of scheduled classes. When service is not provided in a residence hall, students residing in such halls may participate at a neighboring dining facility.

All students living in resident halls other than Scheeler Hall (sorority occupancy) must buy into the a la carte board plan at the set mandatory rate until they have completed six semesters of college attendance.

Transfer students living in residence halls will also be required to take part in the a la carte board plan based on the number of semesters of attendance completed as a full-time student. Participation requirements are mandatory until the completion of six semesters of such attendance.

The rate for 1994-1995 is $650.00 per semester. Those dollars may be used to purchase food in any of the residence hall dining rooms, Union cafeteria (during designated hours) or campus grocery stores during the semester. All items for sale are individually priced.

Non-mandatory meal plan students, during the 1994-1995 academic year, may purchase an initial meal plan credit for a minimum of $195.00. Further purchases may be made in $25.00 increments.

Refunds

In cases of formal voluntary withdrawal (see page 212), tuition, room rent and board in University operated dormitories are refundable. Such refunds are available only during the first seven-week period of each semester, beginning with the first official day of classes, and are made in accordance with the schedule below, based on the day the application to withdraw is submitted to the Registrar's Office. If a student is dismissed, there is no refund due. General, special and laboratory fees are never refunded.

<table>
<thead>
<tr>
<th>WEEK OF SEMESTER</th>
<th>PERCENTAGE REFUND FOR TUITION &amp; ROOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>90%</td>
</tr>
<tr>
<td>2</td>
<td>80%</td>
</tr>
<tr>
<td>3</td>
<td>70%</td>
</tr>
<tr>
<td>4</td>
<td>60%</td>
</tr>
<tr>
<td>5</td>
<td>50%</td>
</tr>
<tr>
<td>6</td>
<td>40%</td>
</tr>
<tr>
<td>7</td>
<td>30%</td>
</tr>
</tbody>
</table>

Board: 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.

Refunds are made to students unless the University is instructed in writing to remit to parents or guardians. Refunds must be claimed in writing within six months of the close of the semester in which the assessments were made.

If a student or a parent feels that individual circumstances warrant exceptions to this policy, a written request should be submitted to the Vice President for Business Affairs.
Financial Aid Scholarships, Loan Funds

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, character, future promise, 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.

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 both the Free Application for Federal Student Aid (FAFSA) and the Valparaiso University Application for Financial Assistance (VUAFA). The FAFSA requires no fee; the VUAFA requires a $10.00 fee payable to Valparaiso University. The FAFSA can be secured from your high school guidance office or by writing to the Office of Financial Aid, Valparaiso University. Indiana residents must file the Free Application for Federal Student Aid before March 1 to be eligible for Indiana awards. The VUAFA can be obtained from the office of Financial Aid. The VUAFA may also be used as an early need analysis service to obtain an estimate of financial need. The form and this service will be available in August or September of 1994 for the 1995-1996 academic year. The filing of these forms should be completed as soon after January 1 as possible. The Office of Financial Aid cannot guarantee aid consideration for students whose forms are filed later than March 1 of the spring before matriculation. Further details regarding financial aid may be obtained from the Office of Financial Aid.

SCHOLARSHIPS AND SPECIAL AWARDS

Valparaiso University makes available a variety of scholarships and awards. Eligibility for all scholarships and grants is determined by the university committee whose decision is final. Scholarships and awards are offered in good faith by the University with the intent that they will be renewed under the conditions specified. The University does reserve the right to alter any scholarship or award should circumstances dictate. Since funds are limited, students must apply for admission by January 15 of the year preceding matriculation for priority consideration. In the event that a student is eligible for more than one scholarship or award, the student will receive the award or scholarship with the largest value.

Founders Scholarships.
Board of Directors Scholarships.
Honors Scholarships. High school seniors with outstanding scholastic achievement. Awarded without regard to financial need. Awards range in size from $4500 to $8500. Renewed if the annual grade point average at Valparaiso University is 3.00 or above. Awarded to eligible candidates who apply for admission by January 15.

Lutheran Presidents' Scholarships. Full-time Lutheran undergraduate students who are nominated by Presidents of the major Lutheran Churches. Award is up to $2000 and is renewed if the annual grade point average is 3.00 or above. Direct inquiries to the Office of Admissions.

Alumni Heritage Awards. Full-time undergraduate sons and daughters of Valparaiso University alumni. Awards are renewed if the annual grade point average is 2.00 or above.

Diversity Awards. Full-time undergraduates of multicultural background who display exceptional promise. Awards vary in value and are renewed if the annual grade point average is 2.00 or above.

Martin Luther Awards. Full-time undergraduate sons and daughters of full-time Lutheran professional church workers. Award is $4,000 for students admitted for Fall 1994 and is renewed if the annual grade point average is 2.00 or above.

Lutheran High School Graduates Awards. Full-time undergraduate students who are above average in academic ability. Award is $1000 and is renewed if the annual grade point average is 2.00 or above.

Transfer Scholarships. Transfer students who are members in good standing of Phi Theta Kappa and meet specific academic and classification requirements. Award is $1,500 and is renewed if the annual grade point average is 3.00 or above.

Athletic Grants. Full-time undergraduates who are nominated by the Director of Athletics, usually upon recommendation of the appropriate coach. Amounts vary in size and are renewed upon recommendation of the Director of Athletics.

Music Grants. Full-time undergraduates who participate in music ensembles. Recipients are nominated by the Department of Music usually based on auditions. Amounts vary and are usually renewed annually if the annual grade point average is 2.00 or above and performance is satisfactory.

University Grants. Full-time undergraduate students with financial need, who may not qualify for other University scholarships or awards.

Federal Grants. Federal financial aid programs, including Federal Pell Grants and Federal Supplemental Educational Opportunity Grants (SEOG), are administered through the Office of Financial Aid and are based solely on financial need as determined by the Free Application for Federal Student Aid.

State Grants. The State of Indiana provides the Indiana Higher Education Award and the Freedom of Choice Grant to Indiana residents. The University also participates in the Hoosier Scholar program and the Paul Douglas Teachers Scholarship program. Eligibility for all Indiana programs requires the filing of the Free Application for Federal Student Aid prior to the strict deadline of March 1.

Loans. Valparaiso University offers limited institutional loans and assists in administering several federal loan and private loan programs. Eligibility is determined on the basis of financial need. Non-need based loan programs are also available.
Satisfactory academic progress is defined in student from receiving financial aid programs available et Valparaiso University Education. s

Financial Aid, Scholarships, Loan Funds

Campus Employment. Students are employed on campus in a variety of positions. Selection for employment is primarily based on financial need. However, there are positions available where need is not a factor.

Complete information regarding financial aid programs available at Valparaiso University is compiled in the booklet, "Financing Your Valparaiso University Education."

Annual. All need-based financial assistance requires the annual filing of the Valparaiso University Application for Financial Assistance and the Free Application for Federal Student Aid. Renewal depends on continued need, the availability of funds, and satisfactory academic progress. Academic deficiency precludes a student from receiving financial assistance.

Satisfactory Academic Progress. A student must maintain satisfactory academic progress to be eligible to receive financial aid. Satisfactory academic progress is defined in the handbook, "Financing Your Valparaiso University Education."

Scholarships

APPLICATION REQUIRED

Students should contact the Office of Admissions and Student Financial Planning for further information about the following scholarships.

- Aid Association for Lutheran Scholarship.
  All College and Lutheran Campus Scholarships.
- Luella R. and Herbert P. Buetow Endowed Scholarship. Preference to student(s) who plan to enter upon a career in the broad service of the Church. The award is made on the basis of academic ability, character, future promise and need for financial assistance.
- 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.
- Shirley Ayers Jud Memorial Endowed Scholarship. Preference to student(s) who plan to pursue a career in the chemical and biochemical sciences. Preference to Shirley Jud and gifts by Dr. Henry G. Jud, matched in part by Unisys 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(s) maintain a 3.0 or better grade point average. This scholarship recipient shall be sons or daughters of Guild members. Application must be made for this scholarship.
- James S. Kemper Endowed Scholarship. To be awarded to one freshman each year. The candidate must have maintained a 3.0 or better grade point average. The scholarship recipient shall be sons or daughters of Guild members. Application must be made for this scholarship.

Application forms are available from the Office of Admissions or the Guild Office.

- The Donna Spanopoulos Memorial Scholarship. Annual award. Preference to senior student(s) enrolled in the College of Nursing at Valparaiso University, who express an interest in specializing in pediatric care and have demonstrated clinical and academic ability. Financial need not a criterion.
- Valparaiso University Guild (Cookbook) Endowed Scholarship. Two new scholarships awarded annually to freshmen students with financial need and with academic ability. The $2,000 scholarship may be renewed if the recipients maintain a 3.0 or better grade point average. The scholarship recipients shall be sons or daughters of Guild members. Application must be made for this scholarship. Application forms are available from the Office of Admissions or the Guild Office.

- The Judith D. Emery and Beleau Endowed Scholarship. Awardees will be selected from the total group of applicants who have completed the application for admission. On the basis of the application and other criteria, a candidate will be considered for financial aid. The candidate will be awarded a scholarship based on the following criteria:
  1. Satisfactory academic progress as defined by the university.
  2. Financial need as defined by the office of financial aid.

- The Aimee M. L. Becker Endowed Scholarship. Preference to a student from Missouri.

Financial Aid, Scholarships, Loan Funds

- Dr. and Mrs. Henry Frederick Beckman Endowed Scholarship. Preference to a student from Indianapolis, Indiana.
- Victor H. Bergmann Endowed Scholarship. Annual Award.
- Charlotte Barnes Scholarship. Preference to a student in the College of Nursing.
- Wilfred and Olga Berntsen Endowed Scholarship. Annual award. Established by their son and daughter-in-law, Mr. and Mrs. Harold G. Berntsen.
- Bethel Lutheran Church of University City, Missouri, Endowed Scholarship (PACT). Annual award. Established by graduates of Bethel Lutheran Congregation; then to a student from any ELCA congregation; then to any African-American, Native American, Hispanic, or Asian student; financial need is not a criterion. Preference to active member(s) of a Lutheran congregation.
- W. H. Bischel Scholarships. Annual award.
- Charles H. and Elizabeth Blum Endowed Scholarship. Preference to students from Northwest Indiana.
- William F. and Martha Boeger Memorial Scholarship. Varying amounts for needy students.
- Rudolf F. Boninger Memorial Scholarship. Established by the Valparaiso Board of Realtors in memory of past president Rudolf F. Boening. Preference to senior business majors from Porter County, Hobart or Merrillville who have maintained an academic standing of 3.0, regardless of need.
- Mrs. Amalie Bokerman Endowed Scholarship. Preference to a resident of Pennsylvania.
- John V. Borgerding Endowed Scholarship. Preference to a resident of greater Pittsburgh or Pennsylvania.
- Mr. and Mrs. Stanley E. Bowin Memorial Endowed Scholarship. Established in their honor on the occasion of their fortieth wedding anniversary. Annual award with preference to students from Wisconsin.
- Professor John Bowman Endowed Scholarship. Preference to students enrolled in the School of Law.
- Daniel R. Brant Endowed Scholarship. Annual award with preference to students enrolled in the College of Engineering.
- Martin W. Brandt, Ph.D., Memorial Endowed Scholarship. Preference for chemistry major. Applicant must have substantial financial need, demonstrated scholastic ability, good character, and the maturity, perspective and motivation to undertake summer work each undergraduate summer. Preference to orphaned or one-parent children.
- The Paul and Cleo Brandt Endowed Scholarship. Preference to students who participate in the University's Division I basketball.
- Carl and Isabella Braverman Endowed Scholarship. Preference to active member(s) of a Lutheran congregation.
- A. John & Ruth J. Briel Endowed Scholarship. Awarded annually to any student in
Financial Aid, Scholarships, Loan Funds

need of assistance.
• Ruth Brown Memorial Endowed Scholarship (PACT). Preference to a female student who is a physical education major, field hockey athlete and Lutheran. If there is not a qualified applicant of this description, preference to any student whose major is physical education. Financial need not a criterion.
• Julius C. Buehler Endowed Scholarship. Annual award to any student in need of assistance.
• William G. Buchinger Endowed Scholarship. Preference to students studying engineering.
• Mrs. Ella M. Pullin Endowed Music Scholarship. Annual award. Preference to music majors.
• Selma Deolee Buss Endowed Music Scholarship. Annual award. Preference to students preparing mathematics with preference given to those preparing to teach mathematics. This is to be a merit award and recommendations are to be made by the Chair of the Mathematics Department.
• Olive and Holger Cattau Memorial Endowed Scholarship. Preference to students from Michigan and Western New York. Special consideration to students preparing to the Church.
• Dr. Eugene J. Cheseal Memorial Endowed Scholarship. Preference to pre-medical students from Illinois.
• John E. Christen Memorial Endowed Scholarship. Preference to students in the School of Law.
• City Glass Specialty, Incorporated. Preference to students from Fort Wayne, Indiana.
• Emma E. Claus Scholarship. Preference to students participating in the Christ College program.
• Robert F. and Caroline McMillan Collins Endowed Scholarship. Preference to New England students majoring in either art or speech and drama.
• Concordia, Wilmington, Delaware, Endowed Scholarship (PACT). Annual award. Preference to a student from Concordia congregation, then to a student of African-American extraction; next (if no student applies within three years) to a student pursuing courses relating to Native American studies or Native American concerns.
• Crowe Chemical Company Scholarship. Annual award to an upperclass accounting major.
• Sister M. Hugolna Czapinski Scholarship. Preference to a student pursuing a Bachelor of Science degree in nursing, from Lake or Porter County, then to a student from surrounding counties in Indiana or Illinois. Financial need is a criterion.
• Auerbach-Vincent Endowed Scholarship. Awarded annually.
• Edwin F. Deierle Endowed Scholarship. Preference to students from Northern Illinois.
• Delta Upsilon Chapter of Eta Sigma Phi Scholarship. Classics honorary. Awarded annually to promising students who have had at least one year of Greek or Latin. Preference given to Eta Sigma Phi members.
• Deuber-Juenemann Foundation Scholarship. Annual award. Preference to student(s) from Minnesota.
• John L. DeVoss Memorial Scholarship. Preference to law students who are from Adams City or who intend to practice in the Adams County area.
• Sophie Doern Endowed Scholarship. Annual award.
• Donald W. Dopp Memorial Endowed Scholarship. Established with gifts from members of the Dopp family, preference to Michigan residents, preferably from a student from this church, then to students from Illinois or one of its neighboring states. Financial need not a criterion.
• Wilbur C. Dopp Memorial Endowed Scholarship. For employees of Dopp Distributors, Incorporated, or for an employee's son, daughter or grandchild.
• Wilbur H. and Margaretta M. Doeland Endowed Scholarship. Awarded annually on the basis of merit and need with preference to students from Eastern Iowa.
• Hugo and Edna Duesenberg Endowed Scholarship. Established by the family in honor of their parents. Preference to graduates from St. Louis Lutheran high schools.
• Richard W. and Phyllis (Buehner) Duesenberg Endowed Scholarship. Established by Richard W. and Phyllis (Buehner) Duesenberg, of St. Louis, Missouri, in memory of his parents, Hugo and Edna Duesenberg, both graduates of Valparaiso University. Preference to students from the Southeastern United States.
• Linda Ann Eastmond (Bauer) Memorial Endowed Scholarship. Preference to a student from Nebraska.
• Linda Ann Eastmond (Bauer) Memorial Endowed Scholarship. Preference to students enrolled in the College of Arts and Sciences who intend to pursue a career in teaching; based on financial need.
• Charles and Ruth Ebenreiter Family Endowed Scholarship (PACT). Annual award. Preference shall be given to a student from Messiah Lutheran Church, then to a student from any Lutheran Church, then to a student from Northern Illinois. Financial need not a criterion.
• Reverend Ernest H. Eggers Memorial Endowed Scholarship. Annual award with preference to students from Texas.
• Mercia H. Emens (PACT). Preference to a student from the Fort Wayne, Indiana area.
• H. Stanley and Calista Euland Endowed Scholarship. Preference to students from Fort Wayne, Indiana.
• Troll Endowed Scholarship. Preference to physically challenged students who have substantial financial needs and second preference to a "non-traditional or older student." If the applicant is a non-traditional applicant it should be awarded on the basis of financial need.
• Faith Lutheran Church, Lake Forest, Illinois, Endowed Scholarship (PACT). Preference to students from this church, then to Lutheran students from the Chicago area. Financial need not a criterion.
• Robert Emler Finding Memorial Scholarship. Preference to engineering students.
• The Helen Finkhaber Memorial Endowed Scholarship (PACT). Annual award. Preference to a Lutheran student from Ann Arbor, Michigan, then to any Lutheran student from Michigan. Financial need not a criterion.
• First National Bank of Valparaiso Scholarship. Preference to students from Porter County, Indiana.
• Carl Christian Fleischer Memorial Endowed Scholarship. Preference to College of Engineering students.
• The Rev. H. and Elmer E. Foeller Memorial Endowed Scholarship (PACT). Annual award. Preference to a Lutheran student who has chosen music as a major. Financial need not a criterion.
• Herbert J. and Marie Foeller Endowed Scholarship. Annual award.
• Edith Schuchardt Forsberg Family Memorial Endowed Scholarship. Established by Rev. B. Schuchardt. Preference to students from Wisconsin.
• Arthur Franke Memorial Endowed Scholarship. Annual award.
• The Paul and Emilie Freitag Endowed Scholarship. Preference to Lutheran students from New England area.
• The Paul W.D., Jr. and Alita H. Freitag Endowed Scholarship. Annual award.
• Larry F. and Margaretta Frenkel Endowed Scholarship. Preference to students from the southeastern United States.
• Earl R. Frezinger Endowed Scholarship. Preference to the student who participate in cross-country or other sports.
• William A. Fuzy Family Endowed Scholarship. Annual award.
• The Daniel and Thomas Gahoi Endowed Scholarship (PACT). Three awards annually: First award - preference to a student whose major is in the field of history. Second award - preference shall be given to a social work major. Third award - preference shall be given to a student of African-American, Asian-American, Hispanic-American or Native-American derivation, or to an international student. Financial need is not a criterion for any of the awards. The Dr. Ernest J. Gallmeyer Memorial Scholarship shall be given to a student from the Fort Wayne, Indiana area.
• Dr. and Mrs. E. C. Galsterer Endowed Scholarship. Preference to students from Southeastern Ohio.
• William G. Gast Memorial Endowed Scholarship. Preference to children of Gast Manufacturing Company who have identified themselves as students going to students majoring in engineering from southwestern Michigan in any year that the employee's child does not qualify or are not available.
• Harold C. Gear Endowed Scholarship. Awarded to any student in need of assistance.
• Dorothy Gouy Memorial Endowed Scholarship. Annual award. Selection to be based upon academic merit or financial need with first preference given to students who are members of Trinity English Lutheran Church in Fort Wayne, Indiana, then to other Lutheran students from Fort Wayne, Indiana.
• Grace Lutheran Church, Winter Haven, Florida, Endowed Scholarship (PACT). Preference to a student from this church; then to a student from Florida or neighboring state. Financial need not a criterion.
• Grace Lutheran Church, Tulsa, Oklahoma, Endowed Scholarship (PACT). Established by Grace Lutheran Church, River Forest, Illinois, awarded annually to a student from this church, then to a student from Illinois or one of its neighboring states. Financial need not a criterion.
• Grace Lutheran Church, Tulia, Oklahoma, Endowed Scholarship (PACT). Preference to a student from this church, then to student from Tulsa or Oklahoma, or neighboring state. Financial need not a criterion.
• The Erwin and Helen Gratzler Endowed Scholarship (PACT). The Erwin and Helen Gratzler Endowed Scholarship shall: First award: preference to a member of Messiah Lutheran Church, Fairview Park, Ohio, then to a student of an Evangelical Lutheran Church in America (ELCA) congregation in the Cleveland, Ohio, metropolitan area. Second award: preference to a student of an ELCA congregation in the Cleveland area, then to a member of the Northeast Ohio Synod of the ELCA. Third award: preference to any student of African-American, Native American, Hispanic or Asian derivation.
• The Erwin and Helen Gratzler Endowed Scholarship (PACT). Preference to students from the Fort Wayne, Indiana area. Financial need not a criterion.
• Carl Christian Fleischer Memorial Endowed Scholarship. Preference to College of Engineering students.
• Edith Schuchardt Forsberg Family Memorial Endowed Scholarship. Established by Rev. B. Schuchardt. Preference to students from Wisconsin.
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students with preference to students from Porter County, then to students in the College of Business. Financial need not a criterion.

Professor Charles R. Gromley Endowed Scholarship. Annual award to a student(s) enrolled in the School of Law.

Leona M. Groth Memorial Endowed Scholarship. Two annual awards. One award to a student training for the ministry or as a parochial school teacher, the second award to a student training to become a teacher.

Henry C. and Ura E. Guli Endowed Scholarship. Annual award.

Charles Halleck Endowed Scholarship. Scholarship for law students enrolled at Valparaiso University who are members of Phi Alpha Delta law fraternity. Annual award based on demonstrated financial need and academic merit, outstanding service to the fraternity and the School of Law community.

The Arthur E. and Frieda H. Fott Endowed Scholarship. Established by the family. Preference to students preparing to teach mathematics. This is a merit award and nominations are made by the chairperson of the Mathematics Department.

The Elsa and Lloyd Halverson Endowed Scholarship. Annual award.

Clarence and Elsie Hansen Endowed Scholarship. Annual award.

The Rev. Dr. Oliver R. and Bertha Harms Endowed Scholarship. Annual award.

The Edward W. Hartman Memorial Endowed Scholarship. Preference to a Lutheran student who is a graduate of Concordia Lutheran High School in Fort Wayne, Indiana.

The Reverend Harlan Hartner Endowed Scholarship. Preference to students from the Greater Kansas City area.

Lilly Hayden Memorial Endowed Scholarship. Preference to students from Immanuel Lutheran Church, Grand Rapids, Michigan, or other students from that area.

The Rev. Harry H. Haybert Endowed Scholarship (PACT). Established by family and friends. Annual awards(s) with preference to a student(s) of African-American derivation.

William Randolph Hoehrl Endowed Scholarship Fund. Annual awards to African American or Hispanic American students who intend to reside in the United States during their studies.

Watther T. F. and Laura M. Heinicke Endowed Scholarship. Preference to pre-medical students(s), sons or daughters of ministers or teachers of the Lutheran Church-Missouri Synod.

John and Dorothy Heinrichs Endowed Scholarship. Annual award. Preference to students studying Greek or Latin.

Dr. Karl H. Henricks Endowed Scholarship. Established in his honor by Mr. and Mrs. Henry J. Moellerling. Preference to Lutheran students.

The Karl H. and Luetta M. Henrichs Endowed Scholarship. Annual award.

The John and Rose Herrcher Endowed Scholarship. Established in their honor by their daughter, Dorothy. Awarded on the basis of need and academic achievement with preference given to a Lutheran student from Kankakee County, Illinois, then from the Northern Illinois District.

Herman C. Hesse Endowed Scholarship. Preference to engineering students. The awardees to be noted on the basis of their major field of study.

Mr. and Mrs. Peter Hessler Endowed Scholarship. Annual award.

The William and Vere Hayne Endowed Bach Scholarship. Established by family and friends, awarded annually, preference to a student majoring in church music, then to any student whose major field is music. Financial need is not a criterion.

Charles H. Hickman Memorial Endowed Scholarship. Preference to a student majoring in law, then to any other student from this area.

D. Hildebrandt Memorial Endowed Scholarship Fund (PACT). Established by the Daniel Hildebrandts and Trinity Lutheran Church, Roselle, Ill. Intent is to be made to a transfer student, preferably one from this church. Financial need is not a criterion.

Mary Higlemeyer Endowed Scholarship. Preferably a member of Emmaus congregation, Indianapolis, Indiana.

Dan Higendorf Memorial Endowed Scholarship. For Lutheran students from California with preference to students from the Altadena area.

Rosa L. Hollenback Endowed Scholarship. Annual award to a worthy student.

Walter S. Hiltbrandt Endowed Scholarship. Annual Award.

Hispanic Student Scholarship. Annual award with preference to a Hispanic student in the School of Law.

Hoepnner, Wegner and Evans Scholarship. Administered by the School of Law's Financial Aid Committee. Preference to one student from each of the second and third year classes.

Richard J. Hoeger Endowed Scholarship. Preference to students enrolled in political science courses.

The Harold and Margaret Hoffman Endowed Scholarship. Preference to a student from the Fox River Valley in Kane and McHenry Counties in Illinois.

Margaret Hoffman Endowed Memorial Scholarship. Annual award.

Dr. O.C.J. Hoffmann-Dr. A. G. Huegli Endowed Scholarship. Preference to St. Louis Lutheran High School graduates, and then to St. Louis area students.

Clara A. Holmen Scholarship. Preference to students in the fields of chemistry and medicine.

Oscar Homann Endowed Scholarship. Preference to Lutheran students majoring in agricultural studies.

Hope Lutheran Church, Park Forest, Illinois, Endowed Scholarship (PACT). Preference to a student from this church, then to a student from Illinois or one of its neighboring states. Financial need is not a criterion.

Dr. and Mrs. A. G. Huegli Endowed Scholarship for Leadership. Established in their honor by their children.

A. G. Huegli Southeastern Michigan Endowed Scholarships. Preference to students from Southeastern Michigan. Recipients are designated "Huegli Scholars."

Joyce Huegli Memorial Endowed Scholarship. Preference to student(s) in the College of Nursing.

Solita E. Endowed Memorial Scholarship Fund. Annual award with preference to students enrolled in the elementary education curriculum.

Immanuel Lutheran Church, Michigan City, Indiana, Endowed Scholarship Fund. Annual award. Preference to members of Immanuel Lutheran Church, then to a Lutheran student from the Northern Indiana area.

The Incentive Endowed Scholarship (PACT). Annual award. Intended to be an incentive to young men and women who for financial reasons might normally be discouraged to pursue a college education; therefore, to be awarded to economically disadvantaged students.

Indiana Federal Bank. Preference to Porter County, Indiana resident enrolled in the College of Business Administration.

Judge and Mrs. F. A. Jessel Endowed Memorial Scholarship. Annual award.

Richard F. and Martha W. Jeske Endowed Scholarship. Annual Award.


Mr. and Mrs. Emil Jochum, Scholarships in varying amounts up to full tuition annually for students from Ohio, preferably Cleveland and vicinity.

The Irma and Henry K. Jeska Endowed Scholarship. Annual award with preference to a multi-cultural student.

Dr. Philip G. Kapfer Memorial Endowed Scholarship. Preference to a student majoring in music, then from the Northern Illinois District, and then from any Lutheran student from the Orange County, Illinois area.

Bud Keller Memorial Endowed Scholarship (PACT). Established by the Valparaiso University Guild of Orange County, California, Preference to sons and daughters of guild members, or relatives of Bud Keller, then to any Lutheran student from the Orange County geographical area. Financial need is not a criterion.

Edwin H. Klinkerman Endowed Scholarship. Annual award. Preference given to deserving, needy student(s) majoring in theology in the Luther Seminary-Missouri Synod.

Walter C. and Elizabeth K. Klug Memorial Endowed Scholarship. Annual award.

Ernie T. Knaupp Memorial Endowed Scholarship. Annual award to nursing students.


Mr. and Mrs. Edwin H. Koeneman Endowed Scholarship. Preference to students from Concordia Lutheran High School, Fort Wayne, Indiana.

Ersa E. Koennemann (Mrs. Henry F.) Endowed Scholarship. Preference to students in the College of Nursing.

The Eleanor R. Koennig Memorial Endowed Scholarship (PACT). Annual award. Preference to students from Immanuel Lutheran Church, Valparaiso, Indiana; then to a student of African-American, Hispanic, or foreign identity. Financial need not a criterion.


Jayno Hoffmann Kraege Memorial Endowed Scholarship. Preference to students with an interest in journalism.

Matilda M. Kramer Memorial Endowed Scholarship. Annual award. Preference to a student in the College of Arts and Sciences who will be working in service to the church, if possible. Preference further to a student from Allen County, Indiana.

John W. and Clara A. Krathwohl Endowed Scholarship. Preference to students from the state of Indiana, especially from the Fau, Indiana area.

Mr. and Mrs. Gilbert W. Krause Athletic Endowed Scholarship. Established by members of their family on the occasion of their fiftieth wedding anniversary. Preference to students with outstanding athletic and academic records.

Reverend Paul G. Krenetz Memorial Endowed Scholarship (PACT). Established by family and Our Savior Lutheran Church, Aurora, Illinois. Preference to a student from this church; then to a minority student. Financial need not a criterion.

The Ruth Krantz Endowed Scholarship (PACT). Established by family and Our Savior Lutheran Church, Aurora, Illinois. Preference to a Lutheran student from this church; then to a minority student. Financial need is not a criterion.

William H. Kroeger Endowed Scholarship. Preference to a resident of Adrian, Ohio.

William Henry Kroeger Endowed Memorial Scholarship (PACT). Preference to a music student. Financial need is not a criterion.

Walter H. Krohnke Scholarship, Established with gifts from the Reverend and Mrs. Justus P. Kretzmann and other members of their family. Preference to students in the College of Business Administration.

Kueckenberg Family Scholarship. Awarded annually, on the basis of merit or need, with preference to a student from Wisconsin, preferably from the Clintonville area.

Krumseg Scholarship-Loan Fund. This trust is established in memory of Charles J. Krumseg, Ida F. Krumseg and Elsa Krumseg Kraft.

Ariene E. Laesch Endowed Scholarship. Awarded annually on the basis of academic ability, character, and need. Preference to a Lutheran student.

Charles and Meta Laesch Endowed Scholarship. Awarded annually to a pre-medical student who is a junior in standing, and then to a Junior student planning to enter osteopathy, if available.


Ernest and Adelaide Laetz Endowed
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Scholarship. Preference to students from Michigan.

Erwin A. and Eleanor H. Lange Endowed Scholarship. Preference for students in accounting or business administration.

Harry and Emma Lange Memorial Endowed Scholarship. Established by the children and relatives of Harry and Emma Lange, Seymour, Indiana.

Edward and Margaret Larson Endowed Scholarship. Preference to Northwestern Indiana student.

Tommy Lasorda Endowed Scholarship. Funded by friends and associates of the long-time Los Angeles Dodgers manager. Preference to member(s) of the men's baseball team.

Richard H. K. MacNary Endowed Scholarship. Preference to a junior Lutheran student in finance, to any student in the College of Business Administration. Financial need not a criterion.

School of Law Board of Visitors Donated Scholarship. Annual award to a law student with preference to minority students. The award is to be based on financial aid.

Blase Lazare Memorial Endowed Scholarship Fund. Preference to a member of the football team.


The Dr. & Mrs. H. A. P. Leininger Endowed Scholarship. Annual award to female student of Christian character, preference to Lutheran faith, good school record in the College of Nursing. Financial need not be a criterion.

The George and Fioretta Lotz, Sr. Endowed Scholarship. Annual award.

Ernest and Claire McArthur Endowed Scholarship. Annual award.

John A. Liechti Endowed Scholarship. Annual award.

Nancy Linneken Memorial Endowed Scholarship. Preference to a fourth year female student in the area of social work or special education.

Mr. and Mrs. Ericc Lippert Scholarship. Annual awards.

David L. Little Endowed Scholarship. Preference to students from North Dakota or Wisconsin and majoring in electrical or mechanical engineering.

Scott C. Lohr Endowed Scholarship. Annual award with preference to a graduate student in the Sheboygan area Lutheran High School.

Mr. and Mrs. Orval M. Lohse Endowed Scholarship. Preference to students from Kansas.

J. Howard and Norman Lucke Memorial Endowed Scholarship. Preference to students from the Greater Cleveland area.

Lutheran Brotherhood Endowed Scholarship. Established by the Lutheran Brotherhood through its endowed challenge grant program. Restricted to Lutheran students.

Lutheran Deaconess Endowed Scholarships (PACT). Established by friends and members of the Lutheran Deaconess Association. Preference to a deafness student nominated by Lutheran Deaconess Association staff, then to a Lutheran student majoring in Theology. Financial need not a criterion.

Lutheran High School, New York, Award. Awarded to Lutheran high school seniors who are selected by their principals.

Lutheran President's Scholarship. Up to $2000 scholarships awarded annually in the names of the respective Church body presidents of each of the major Lutheran Church bodies in America.

Esther and Karl Lutze Minority Endowed Scholarship (PACT). Annual award to a minority student. Financial need is not a criterion.

Walter A. MacNary Memorial Endowed Scholarship. Annual award.

Orval L. and Maud L. Maine Memorial Endowed Scholarship. Preference to elementary education major, students of cornet or trumpet, creative writing or speech and drama.

Dr. and Mrs. Max K. Malion Endowed Scholarship. Preference to students from the Rochester, Michigan area. (This scholarship will not be initiated until it is fully funded.)

Dan and Louise Manke Chemistry Endowed Scholarship. Preference to a student in chemistry. Financial need a criterion.

Manning/Sprengel Memorial Endowed Scholarship. Annual award. Preference to deserving students from Long Island who are majoring in home economics, physics or music.

Albert A. and Martha Marks Education Scholarship (PACT). Annual award. Preference to a student preparing for work in higher education.

Marowske Endowed Scholarship. Preference to employees of the Flame Furnace Co. and members of their families. If no qualified applicants are available in a given year, preference to students from the Greater Detroit area.

Dr. and Mrs. E. W. Marquardt Endowed Scholarship. Annual award.

G. H. Maskus Endowed Scholarships. Annual award.

Russell H. Matthias Endowed Scholarship. Established by the Lutheran Brotherhood, Minneapolis, Minnesota. Preference to deserving students enrolled in the School of Law.

The Irene Meyer Endowed Scholarship. Annual award. Established by a family in loving memory, to student(s) interested in the Lutheran ministry.

Katherine McCallum Endowed Scholarship. Preference to a worthy student in need of assistance. Must be an American citizen.


Kally Anne McGill Memorial Endowed Scholarship. Established by her parents Michael B. and Susan L. McGill; and Kristin McGill. Preference to a student from the Chicago area who is interested in intercollegiate swimming.

J. Ron & Joanne McCleod Endowed Scholarship. Preference to student(s) from south suburbs of Chicago.

Vera M. McCleod Memorial Endowed Scholarship Fund. Preference to students from the Chicagoland area.

Mr. and Mrs. J. A. Meitz Endowed Scholarship. First preference to a member of Messiah Lutheran Church, Dallas, Texas; second preference to a member of Lutheran Church in the Dallas/Fort Worth area; third preference to a Lutheran student who resides in Texas.

Ernest A. Manzel Endowed Scholarship. Annual award.

Mr. and Mrs. Dirk Meyer Endowed Scholarship. Preference to a student from Pekin, Illinois.

Gerhard F. Mayne Endowed Scholarship. Annual award.

Michigan Student Endowed Scholarship. Annual award with preference to Michigan students.

Bertha Miller Memorial Scholarship. Annual award.

Helen Miller Endowed Scholarship. Preference to a student from St.Paul Lutheran Church, Napoleon, Ohio.

Minnesota Mertt Award. Established by Minnesota alumni and friends. Awarded to students from Minnesota with outstanding ability and potential based on scholarship, character and extracurricular activities. Financial need is not a criterion. Awards are for junior and senior students.

Dean H. Mitchell Endowed Scholarship. Preference to a student from Indiana.

Marie Moehring Endowed Nursing Scholarship. Preference to a junior nursing student, and based on demonstrated leadership, academic achievement, and financial need.

Henry F. Moelling Student Endowed Scholarship. Preference to a resident of Fort Wayne or Allen County, Indiana.

Mr. and Mrs. Henry J. Moellering Endowed Music Scholarship. Recipients are to be selected on the basis of talent and need.

Dr. and Mrs. Robert C. Moellering, Sr. Endowed Scholarship. Preference to music majors or engineering students.

Dr. Charles and Florence Monte Endowed Scholarship. Preference to student(s) in the College of Nursing.

R. Stuart and Margaret Moore Memorial Endowed Scholarship. Annual award.

Marvin Nagel Endowed Scholarship. Annual award to provide financial aid to persons studying for the Lutheran ministry.

Clara Mueller Endowed Scholarship. Annual award.

Ewald H. Mueller Scholarship. Awarded to men and women student athletes on the basis of athletic and academic achievement.

H.F.C. Mueller Endowed Scholarship. Awards to eligible students who completed the freshman year, for a maximum of four years, including one seminary year.

Gail (nee Hendrickson) and Robert Muir Endowed Scholarship. Preference to sons or daughters of full-time workers in the Lutheran Church.

Martin David Mundle Memorial Endowed Scholarship (PACT). Annual award. Preference to an individual who is a mathematics major or minor whose average grade point is or exceeds 3.00 in a four point system. Financial need not a criterion.

An Endowed Music Scholarship (PACT). Annual award. Established by Stephen R. Kinder and other friends of the University. Preference to a graduate music student, then to a music student. Financial need not a criterion.

The George and Mary S. Myers Endowed Scholarship. Annual award.

NBD N.A. Preference to students from Northwest Indiana.

J.G. and Judith E. Nagel Scholarship. Annual award. Established in their honor on the occasion of their thirtieth wedding anniversary. Preference to Lutheran students enrolled in the college of Arts and Sciences.

Mr. and Mrs. Manley J. Nehring Endowed Scholarship. Preference to a student from Colorado.

The Faye Newton Memorial Endowed Scholarship (PACT). Established by relatives and friends, awarded annually. Preference to a student from the Faith Lutheran Church, Elma, N.Y., then to a Lutheran student from the greater Buffalo area. Financial need is not a criterion.

The Nichols Family Endowed Scholarship, Annual award to students from Michigan with preference to students from Saginaw County. Financial need a criterion.

Marlyn Niequest Memorial Endowed Scholarship. Preference to a female student from the State of Michigan.

Nicholas H. and Marguerite J. Novak Endowed Scholarship Fund. Authorized by the Board of Directors of Valparaiso University to honor Mr. and Mrs. Novak, whose generosity makes this scholarship possible. The Novak Scholars are to be selected on the basis of need, character, personality and leadership. The number of Novak Scholars and the amount of scholarship is determined each year by the University Scholarship Committee.

Carl and Arlene O'Neill Endowed Scholarship. Preference to College of Business Administration students who also agree to take at least one course, if available, on the subject of risk management.

Joel S. Oberman Endowed Basketball Scholarship. Preference to a member of the basketball team.

Oberst Family Endowed Scholarship. Annual award.

The Reverend Armin and Evelyn Olden Endowed Scholarship. Annual award.

George S. Olive and Company Outstanding Achievement in Accounting Award at Valparaiso University. Annual award to a junior accounting major who will graduate by August of the following academic year. Recipient must have a 3.00 grade point average with a 3.30 in accounting; public accounting goal (and likely to practice in Indiana); demonstrated leadership abilities in extracurricular
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activities; significant involvement, to include assumed leadership positions in any of the following: Beta Alpha Psi, Accounting Club (society), other honorary organizations, other business fraternities, social fraternity or sorority, student government, varsity athletics, community service, other (must be specified).

- Helen Mee Olaon Memorial Scholarship. Annual award.
- Walter E. Olson Memorial Scholarship. Preference to students from the Northern Illinois District.
- The Orting Family Endowed Scholarship (PACT). Two awards annually. Preference to students from Prince of Peace Lutheran Church, Marlot, New Jersey, or from Bethel Lutheran Church, St. Louis, Missouri. If there is no identifiable recipient, the scholarship is to be designated for another deserving/neediest student.

- Dr. Richard Oster Scholarship. Preference to students from New Orleans, Louisiana.
- Thomas Otten and Joyce Otten Memorial Endowed Scholarship (PACT). Annual award to students with financial needs, who transfer from other schools, who may not necessarily be in highest scholastic ranking. Preference shall be given to students of African-American, Hispanic, or Native-American derivation or a foreign student, and to students enrolling in studies that lead to health and social-service careers.

- Our Savior Lutheran Congregation of Raleigh, North Carolina, Endowed Scholarship (PACT). Annual award to a student from the Southeastern District (ICMS) with preference to a student from Out Savior Lutheran Congregation.
- Pacific Hills Lutheran Church, Omaha, Nebraska, Endowed Scholarship (PACT). Preference to a student from this church, then to a student from Nebraska or one of its neighboring states. Financial need not a criterion.
- Mollie V. Page Endowed Scholarship. Preference to a member of Bethany Lutheran congregation, Waverly, Virginia.
- Professor Charles G. Peller and His Son, John Van Alstyne Peller, Memorial Endowed Scholarship. To upperclass students in the College of Engineering, preferably civil engineering.

- Peter's Endowed Scholarship. Preference to students from West Michigan.
- Gilbert A. Pfleger Endowed Scholarship. Established in memory of Gilbert A. Peters by his wife. Preference to accounting students; then nursing students.
- Arthur F. Petersen Endowed Scholarship. Awarded annually with preference to players (students) of Baritone Horn and/or clarinet or support for their ensembles.
- Ellis Pfleger Endowed Scholarship. Awarded annually "to needy, deserving and ambitious students."

- Margaret A. Pfleiffer Endowed Scholarship. Preference to an active member of a Lutheran congregation in the state of Michigan majoring in sociology.
- The Irma Pflunger Memorial Endowed Lutheran Deaconess Scholarship (PACT). Annual award. Preference shall be given to a Lutheran Deaconess student, nominated by the Lutheran Deaconess Association, willing to be a Lutheran student majoring in theology. Financial need is not a criterion.
- Phi Delta Theta Class of '84 Endowed Scholarship (PACT). Annual award to an active Phi Delta at Valparaiso; a grade point average equal to or greater than 2.70; an active member on campus, or in the Valparaiso community as demonstrated by offices held, sports or other activities participated in and/or service/internship; financial need; and junior or senior. Recipient shall only receive this award for one year.
- Phi Mu Alpha Endowed Scholarship (PACT). Annual award. Established by members and friends of the Kappa Sigma Chapter of Phi Mu Alpha Sinfonia. Preference to a first year student or transfer student majoring in music, showing commitment to the study of music, who will contribute significantly to the Valparaiso University Music Department, musically and personally. Selection is to be made by the Music Department Chair. Financial need not a criterion.
- Brenda Phillips Memorial Scholarship. Annual award with preference to a female student majoring in computer science.
- Hattie Poe and Endowed Scholarship. Preference to seniors with a special interest in political science.
- Pilgrim Evangelical Lutheran Church of Detroit Memorial Endowed Scholarship. Preference to students from the Detroit area.
- Arthur E. Pohland Endowed Scholarship. Annual award.
- Pohland Family Endowed Scholarship. Preference to students from Western New York.
- The Rodney B. Poppe Endowed Scholarship. Preference to an athlete from McHenry County, Illinois with any student from McHenry County being a second preference.
- Porter County Cancer Society Endowed Scholarship (PACT). Established by friends of Porter County Cancer Society. Preference to a student from Porter County, Indiana, who has been a cancer patient; or to spouse or children of a current or former patient who has had cancer. Financial need not a criterion.
- Porter County Doctors' Scholarship. Preference to students from Porter County who are interested in pre-medical, nursing and medical technology fields.
- Professor Henry W. and Laura M. Prahl Scholarship. Annual award with preference to students majoring in English. Based on academic excellence and character.
- Mrs. Hazel Preodeli Memorial Endowed Scholarship. Preference to students from California and Oregon.
- Presidential Endowed Scholarship for Minorities. Annual award with preference to minority students. Financial need a criterion.
- Vernon F. and Katherine H. Radde Endowed Scholarship. Annual award.
- Emma and William Rakowsky Memorial Endowed Scholarship. Annual award.
- Elizabeth Raney Endowed Scholarship. Annual award.
- Redeemer Lutheran Church, South Bend, Indiana, Endowed Scholarship (PACT). Annual award. Preference to a student from this church, then to a student from greater Chicago area. Financial need not a criterion.
- The Reverend and Mrs. Arthur L. Reine and the Reverend and Mrs. Augustus Reine Endowed Scholarship. Established by Dr. Edgar C. Reine in honor of his parents and grandparents. Two awards on the basis of academic excellence, not need, one to a student who has completed one year of college Latin and one to a student who has completed one year of college Greek. Renewable if the recipient elects to major in Latin, Greek or Classics.
- Reutlingen Semester Scholarship. Awarded annually to a Valparaiso University student participating in the Reutlingen International Study Program.
- Richardson Twin Scholarship. To provide a family with financial scholarship assistance equal to those families who have twins. One full undergraduate scholarship will be awarded consisting of tuition, board and room in a residential hall, required books and fees. The other twin must also attend Valparaiso University with no additional grants. Financial need is a criterion.
- The Alton F. Riemheckle Memorial Alumni Scholarship (PACT). Annual award to be made to any son or daughter of Valparaiso University alumni. Financial need is not a criterion.
- Mr. and Mrs. Carl Ritterberger Scholarship. Preference to residents of Columbus, Lancaster or Zanesville, Ohio or area from the state of Ohio.
- The Sandra Felton Roberts Memorial Endowed Nursing Scholarship (PACT). Established by family and friends, with annual awards to be made to students enrolling in Valparaiso University's College of Nursing. Financial need is not a criterion.
- The Sandra Felton Roberts Memorial Endowed Nursing Scholarship. Annual award. Preference to a person from Pilgrim Lutheran Church, St. Paul, Minnesota, then to a student from Minnesota. Financial need is not a criterion.
- The Sandra Felton Roberts Memorial Scholarship. Preference to members of Trinity Lutheran Church, Jackson, Michigan; then to a Lutheran student from Michigan.
- Walter M. Roth Memorial Endowed Scholarship. Preference to students from Trinity Lutheran Church (elects) prepared for full-time Lutheran Church work.
- Leona Rotzoll and Elise Skusa Memorial Endowed Scholarship. Annual award.
- The Malcolm R. Rubik Endowed Scholarship. Preference to male students who have the goal of becoming Lutheran Church-Missouri Synod pastors.
- Adela Ruettgers Endowed Scholarship. Preference to students in the College of Nursing.
- The Noah B. Ruff Memorial Endowed Scholarship. Preference to student(s) from Ohio.
- August and Helene Ruhe Endowed Scholarship. Annual award to undergraduate students and/or law students who were previously Valparaiso University undergraduate students.
- The Bernice Little Ruprecht Endowed Scholarship (PACT). Annual award to a student preparing for the Lutheran ministry; second preference to a music student.
- The Clementon and Glenice Sabourin Endowed Scholarship (PACT). Preference to a Black student. Financial need is a criterion.
- Gerhard Salzmann Endowed Scholarship. Preference to chemistry majors.
- San Diego Guild/Alum Endowed Scholarship (PACT). Annual award to a student from the San Diego area. Financial need is not a criterion, but may be a consideration. Preference to a child or grandchild of a Guild member or alum. Then to any student from a Lutheran congregation in San Diego County. The scholarship may be awarded for one to four years. Transfer students shall be considered.
- Judy Satikes and Julie Kline Memorial Endowed Scholarship. Preference to a student of academic, financial need, one to a student from Lutheran Students United. Financial need is not a criterion.
- James Savage Endowed Scholarship Fund. To be awarded to deserving Law students.
- Walter W. Schantz Endowed Scholarship. Annual awards.
- The Frederick A. Schaper Endowed Scholarship. Annual award to a freshman football team payer, who completed the season and ended the semester with a 3.00 grade point average or better and will return to the football team as a sophomore, junior, and senior.
- The Philip Scheld Family Endowed Scholarship. Annual award to students majoring in engineering. Preference to students from Arkansas. Financial need a criterion.
- Lee R. Schleifer Memorial Endowed Scholarship. Preference to Lutheran students enrolled in the College of Business Administration.
- The Walter E. Schmidt Endowed Scholarship (PACT). Annual award, preference to a student of severe economic disadvantage or son or daughter of church worker(s) serving the community without compensation.
- Jane Conway Schmeckpeper Endowed Scholarship. Preference to engineering students.
- Dr. Robert V. Schnabel Endowed Scholarship. Established in his honor by friends. Preference to upperclass students who have demonstrated scholarship and leadership. Recipients are designated "Schnabel Scholars."
- Mr. and Mrs. Henry J. Schneider Endowed Scholarship. Annual award.
Financial Aid, Scholarships, Loan Funds

- Dr. Scholl Foundation Scholarship. Annual award.
- Richard A. Schoenbohm Endowed Music Scholarship (PACT). Annual award for a student majoring in music with an emphasis in the area of vocal music. Financial need and scholarship are criteria. The student must maintain a grade point average of 3.00 in major courses and 2.50 overall.
- The Kenneth W. Schreiber Scholarship. Preference to members of LaPorte High School, preferably a baseball player.
- The Pastor Carl (Pat) and Bert Schuette Endowed Scholarship (PACT). Annual award with preference to a student preparing to become a deaconess or some other church-related vocation. It is intended that the scholarship provide incentive to students to consider entering full-time profession for service in the church.
- The Reverend and Mrs. Walter G. Schultz Endowed Scholarship. Established in celebration of their fifty years of service in the Lutheran ministry. Preference to needy students with good academic standing who have completed at least one year at Valparaiso University.
- The Andrew and Margaret Schulze Endowed Scholarship Fund (PACT). Annual award. Preference to students of severe economic disadvantage, particularly students from foreign countries or inner-city communities, or sons and daughters of church workers serving communities from which students come.
- John Schuth Donor Endowed Athletic Scholarship. Awarded annually. Preference to a member of the men’s basketball team.
- The Schwan Family Scholarship Fund. Annual award. Preference to students enrolled in the College of Nursing.
- Elmer Seaback Memorial Endowed Scholarship. Preference to student(s) from the Nebraska area.
- Susan E. Seebor Memorial Endowed Scholarship. Preference to a graduate or undergraduate student in the College of Nursing who plans to specialize in oncology or hospice area. In any given year, if no students meet these criteria, the scholarship may be awarded to any nursing student on the basis of need.
- Ray and Marie Seegers Family Scholarship. Annual award on three year rotating cycle to a student from Northern Indiana, then Northern Illinois, and then from Texas, who is a deserving and qualified student enrolled in the College of Business.
- Susel Endowed Scholarship. Preference to needy and deserving graduates of Chicago Lutheran High-School North.
- Carl W. and Caroline D. Seyboldt. Preference to a member of Bethlehem Lutheran Church, Ridgewood, New Jersey.
- Louis and Helen Zahn Shales Endowed Scholarship. Preference to a member of the First Lutheran Church, Boston, Massachusetts.
- Mr. and Mrs. Hugh O. Sherbert Endowed Scholarship. Preference to Lutheran students from Minnesota, preferably to graduates from Lutheran high schools.
- Vara L. Sieb Endowed Scholarship. Annual award.
- Sigma Phi Epsilon Undergraduate Endowed Scholarship. Annual award.
- Sigma Tau Gamma Undergraduate Endowed Scholarship. Annual award.
- Stanley S. Sink Scholarship. Preference to students from Valparaiso, Indiana.
- Helen Stiebyack Endowed Scholarship. Preference to students from Porter County, Indiana.
- J. Howard Smith Endowed Scholarship. Given by Harvey W. Smith in honor of his father, J. Howard Smith (Valparaiso University L.L.B. 1907; LL.M. (Hon.), 1949; LL.D. (Hon.) 1950).
- Anna Zink Springsteen Prize. Awarded to a senior, preferably an English major who has made a substantial contribution to campus life with special gifts in poetry composition.
- Carl O. Soreh Memorial Scholarship. Preference to students from Minnesota.
- St. John Lutheran Church, Chicago, Illinois, Endowed Scholarship (PACT). Annual award. Preference to a student from this church, then to a Lutheran student from the greater Chicago area. Financial need not a criterion.
- St. John’s Lutheran Church, Long Green, Maryland, Endowed Scholarship (PACT). Preference to student from this church; then to student from either Maryland, Delaware, Virginia, North Carolina, South Carolina, or the District of Columbia. Financial need not a criterion.
- St. Peter Lutheran Church, Mishawaka, Indiana, Endowed Scholarship (PACT). Preference to a student from this church, then to a student from the greater South Bend area. Financial need not a criterion.
- Bertha A. Staede Memorial. Preference to a music major, resident of Minnesota.
- Edward L. P. Staede and Amanda Hall Staede Endowed Scholarship. Annual awards.
- The Arthur and Cecilia Stamm Endowed Scholarship. Annual award. Preference to a student from Houston, Texas, then to a student from Texas, then to a deserving and qualified student.
- The Reverend Martin Th. Steege Endowed Scholarship. Preference to pre-ministerial students. Preference to a student from Southern California.
- J. L. Stendel Family Memorial Endowed Scholarships. Preference to students from Southern California.
- Frederick A. Stendell and Harry E. Stendell Endowed Scholarship. Annual award.
- Paul Stoner Endowed Scholarship. Established by his sister, Miss Ruth Stoner. Preference to students from Porter County, Indiana.
- Mr. and Mrs. Herbert F. Stride Endowed Scholarship. Preference to pre-law students from Illinois.
- The Fred L. and Salma A. Strietter Memorial Endowed Scholarship Fund (PACT). Preference to a Lutheran music student, or a student of church music. Financial need not a criterion.
- Ida S. Strietter Memorial Endowed Scholarship. Annual award to a deserving senior nursing student.
- The George Strimboli Endowed Arts Scholarship (PACT). Annual award. Recipients of this award are to be junior or senior art students with preference to one with a photography major, then to one with a music major.
- Margaretta Sackville Tangerman Endowed Scholarship. Preference to a junior or senior social work major.
- The T.C.W. Scholarships. To be awarded to deserving students who meet the criteria of financial need, Christian character, and good social standing.
- Louis Thoeming Endowed Scholarship. Annual award.
- John David Thomas Endowed Scholarship. Preference to a member of the Valparaiso University wrestling team.
- Lawrence E. Toch Endowed Scholarship. Preference to chemistry or engineering students.
- G. Welker Endowed Scholarship. Annual award.
- The Reverend Kenneth O. Timm Endowed Scholarship. Preference to students from this Milwaukee, Wisconsin area.
- Lawrence E. Toch Endowed Scholarship. Preference to chemistry or engineering students.
- Louis Thoeming Endowed Scholarship. Annual award.
- John David Thomas Endowed Scholarship. Preference to a member of the Valparaiso University wrestling team.
- Lawrence E. Toch Endowed Scholarship. Annual award.
- Turk Family Endowed Scholarship. Preference to students from Porter County, Indiana.
- M. Harkness Ushing Endowed Scholarship Prize. Awarded annually to undergraduate student who writes the best non-fiction prose essay.
- Dr. and Mrs. H. L. Ulbrich Endowed Scholarship. Annual award.
- William E. Urschel Endowed Scholarship. Annual awards to students who will be noted as Urschel Scholars.
- Valparaiso University Alumni and Friends of St. John’s Lutheran Church Scholarship (PACT). Annual award with preference given to a student from St. John’s Lutheran Church, Orange, California. The student must have completed a year(s) of college.
- Valparaiso University Board of Directors Endowed Scholarship (PACT). Established by Valparaiso University Board of Directors. Financial need not a criterion.
- Valparaiso University Alumni and Friends of St. John’s Lutheran Church Scholarship (PACT). Annual award with preference given to a student from St. John’s Lutheran Church, Orange, California. The student must have completed a year(s) of college.
- Valparaiso Women’s Club Endowed Scholarship. Annual award.
- Valparaiso University College of Nursing Endowed Scholarship. Annual award to students enrolled in the College of Nursing.
- Theodore H. and Paula Vogel Endowed Scholarship. Preference to students from the greater St. Louis area.
- The Nancy Vroolan Memorial Scholarship.
Financial Aid, Scholarships, Loan Funds

Loan Funds

- Federal Perkins Program. Valparaiso University participates in the Federal Perkins Loan Program and has established a fund consisting of contributions from the government and the University. Details may be obtained from the Office of Student Financial Aid.
- American Bar Association Fund for Legal Education. Provides a yearly allotment of funds to be used by students of the School of Law of Valparaiso University. Information pertaining to qualifications for this fund may be obtained from the Dean of the School of Law.
- Donna Francesca-Cesario Cherrow Loan Fund. Established for the purpose of making small, short-term loans.
- The Garland Loan Fund. Loans for students majoring in the sciences, mathematics, or home economics. 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 more help. Details may be obtained from the Office of Student Financial Aid.
- Edmund C. Lawe Student Loan Fund. The families of Charles E. Lawe and Walter E. Rahn have established this fund to provide loans to students with a grade point average of 3.00 or better, enrolled in restricted academic fields of study. Preference to Lutheran students. Details may be obtained from the Office of Student Financial Aid.
- Alvinia Louise Marker Loan Fund. This fund was established for the purpose of making loans to students making satisfactory progress toward a degree.
- Phi Alpha Delta Law Fraternity Endowment Fund. Loans from this fund are available to worthy student members of the fraternity who are in need of such loans to complete their law school education. The maximum amount of such loans is $500. Terms of the loans, which are prescribed by the national governing board of the fraternity, may be obtained from the Dean of the School of Law.
- The Herman R. Rahn Memorial Loan Fund. This fund has been established to provide loan funds to students with a grade point average of 3.00 or better, enrolled in restricted academic fields of study. Preference to Lutheran students, particularly members of St. Peter's Lutheran Church, Arlington Heights, Illinois. Details may be obtained from the Office of Student Financial Aid.
- Fred Smoke Student Loan Fund. Administered by the Valparaiso University Alumnae Association, this fund was established in January, 1966, and provides funds for loans to students who are residents of Porter County, Indiana. Details may be obtained from the Office of Student Financial Aid.
- Betty H. Wulf Memorial Loan Fund. Established by her parents, Mr. and Mrs. Walter H. Wulf, to be used by students preparing for church work, such as deaconess training.

LOAN REPAYMENT TERMS

Each of the loan programs contain 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.

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. The grants pay tuition and fees.
UNIVERSITY PERSONNEL

Full-Time Faculty 1993-1994

James William Albers, Th.D., Professor of Theology; Dean of Graduate Studies and Continuing Education; Concordia Senior College (B.A., 1969); Concordia Seminary, St. Louis (M.Div., 1966; S.T.M., 1964; Th.D., 1972)

Zudd Y. Al-Jobab, M.S.C.E., Assistant Professor of Civil Engineering; University of Toledo (B.S.C.E., 1986; M.S.C.E., 1987)

Debra Collins Ames, Ph.D., Associate Professor of Foreign Languages and Literatures; Holy Cross College (A.B., 1980); University of Virginia (M.A., 1982; Ph.D., 1987)

Norman Robert Amundsen, M.S., Associate Professor of Physical Education; University of Wisconsin (B.S., 1955; M.S., 1967)

Katharine Herbert Beddow Antommaria, Ph.D., Associate Professor of Home Economics; Associate Dean of 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., 1960)

Daniel Lee Arkkelin, Ph.D., Professor of Psychology; Bowling Green State University (B.S., 1974; M.A., 1976; Ph.D., 1978)

Gerhard Josef Auier, Ph.D., Assistant Professor of Foreign Languages and Literatures; Pedagogische Akademie des Bundes in Baden (Diploma); University of Illinois (M.A., 1962; Ph.D., 1988)

President Herre

Roy A. Aastensen, Ph.D., Professor of History; Provost and Vice President for Academic Affairs; Concordia Teachers College, River Forest (B.S., 1983); University of Illinois (M.A., 1946; Ph.D., 1968; M.A., 1969); University of Vienna

'Larry Robert Bas, Ph.D., Professor of Political Science; University of Wisconsin, Whitewater (B.Ed., 1968); Kent State University (M.A., 1966; Ph.D., 1967)

James V. Bachman, Ph.D., Associate Professor of Philosophy; the John Ehrich Professor in Religion and the Healing Arts; Valparaiso University (B.A., 1968); Cambridge University (B.A., 1970; M.A., 1974; Ph.D., 1970); Florida State University (Ph.D., 1968)

Richard Paul Beegler, Ph.D., Professor of Theology and Law; Concordia Seminary, St. Louis (B.A., 1952, M.Div., 1954), Theologische Hochschule, Hamburg; University of Erlangen; The University of Chicago (Ph.D., 1964)

Simone Francoise Beegler, Lic. es L., Assistant Professor of Foreign Languages and Literatures; University of Bordeaux; Lundencove College; La Sorbonne, Paris (Lic. es L., 1954), The University of Chicago

'Richard Lawrence Balkema, Ph.D., Professor of Political Science; Western Michigan University (B.A., 1982; M.A., 1963; Southern Illinois University (Ph.D., 1971)

Michael W. Becker, C.P.A., M.B.A., Assistant Professor of Accounting; Wayne State University (B.S., 1962); University of Connecticut (M.B.A., 1978); University of Bridgeport (M.A., 1982)

'Meredith William Berg, Ph.D., Professor of History; St. Olaf College (B.A., 1969); Tulane University (M.A., 1962, Ph.D., 1969)

James A. Bernabe, Jr., Ph.D., Associate Professor of Economics; Manhattan College (B.B.A., 1965); University of Notre Dame (Ph.D., 1972)

'Bruce Gilbert Berner, L.L.M., Professor of Law; Associate Dean of the School of Law; Valparaiso University (B.A., 1965; LL.B., 1967); Yale University (L.L.M., 1978)

John Paul Bernttal, D.M.A., Assistant Professor of Music; Valparaiso University (B.M., 1970); Eastern Illinois University (M.M., 1972); University of Illinois (D.M.A., 1982)

Nandini Bhattacharya, Ph.D., Assistant Professor of English; Presidency College (B.A., 1968; University of Rochester (M.A., 1966; Ph.D., 1969)

Robert Frank Blomquist, J.D., Professor of Law; University of Pennsylvania (B.S., 1973); Cornell University (J.D., 1977)

Ivan Edward Bodenstein, J.D., Professor of Law; Loras College (B.A., 1966); University of Notre Dame (J.D., 1968)

Rodney John Bohlinmann, Ph.D., Associate Professor of Electrical and Computer Engineering, the Frederick F. Jenny Professor of Emerging Technology; Valparaiso University (B.S.E.E., 1970; Rice U. (J.D., 1974)

Bipin Bora, M.S., Assistant Professor of Mechanical Engineering; Indian Institute of Technology (B. Tech., 1983): Case Western Reserve University (M.S., 1985); University of Minnesota-Graduate School

Michael Steven Bradley, Ph.D., Assistant Professor of Chemistry; University of South Carolina (B.S., 1981; University of Illinois (Ph.D., 1985); University of Michigan

Allan Robert Brandboret, Ph.D., Associate Professor of Education; University of Missouri-Columbia (B.S.Ed., 1963; M.Ed., 1970; Ph.D., 1973)

Richard H. W. Brauer, M.S., Associate Professor of Art; Institute of Design Illinois Institute of Technology (B.F.A., 1960)

Hugh Joel Broyer, M.L.S., J.D., Educational Services and Research Librarian with rank of Assistant Professor; Indiana University (B.A., 1973; M.L.S., 1980; University of Cincinnati (J.D., 1983)

Paul Herman Brietzke, J.D., Ph.D., Professor of Law; Lake Forest College (B.A., 1961); University of Wisconsin (J.D., 1969); University of London (Ph.D., 1979)

Frederick John Brigham, Ph.D., Assistant Professor of Education; Bowling Green State University (B.S., 1977; M.Ed., 1983); Purdue University (Ph.D., 1992)

Phillip L. Brockington, Jr., J.D., Associate Professor of Law; Amherst College (B.A., 1966)

On Sabbatical Leave, Spring Semester

On Sabbatical Leave, Fall Semester
Robert Daniel Palumbo, Ph.D., Associate Professor of Mechanical Engineering; Valparaiso University (B.S.M.E., 1983; University of Minnesota (M.S.M.E., 1984; Ph.D., 1987).
James Chien-Hua Tan, Ph.D., Professor of Biology; Chung Shing University, China (B.S., 1957); Montana State University (M.S., 1961); North Carolina State University (Ph.D., 1968)

Kari Joseph Vogler, B.S., Visiting Assistant Professor of Physics and Astronomy; University of Wyoming (B.S., 1984)

Jerry M. Wagenblast, M.S., Associate Professor of Mathematics and Computer Science; Illinois Institute of Technology (B.S., 1962; M.S., 1968); Purdue University

Stuart G. Waleh, P.E., Ph.D., Associate Professor of Civil Engineering; Valparaiso University (B.S., 1963); The Johns Hopkins University (M.S.E., 1965); University of Wisconsin-Madison (Ph.D., 1969)

Losanne Bray Walton, M.A., Associate Professor of Social Work; Valparaiso University (B.A., 1960); The University of Chicago (M.A., 1969)

Walter Wangerin, Jr., M.A., Emil and Elfrida Jochum University Professor; Concordia Senior College (B.A., 1968); Miami University (M.A., 1967); Christ Seminary-Seminex (M.Div., 1972)

Tim J. Watts, M.L.S., Public Services Librarian with rank of Assistant Professor; Kansas State University (B.S., 1979); Pittsburg State University (M.A., 1978) University of Notre Dame (M.A., 1981); Indiana University (M.L.S., 1982)

Ted D. Westermann, Ph.D., Professor of Sociology; Concordia Senior, St. Louis, Mo. (B.A., 1960); Theology Diploma, 1953; Emory University (M.A., 1962; Ph.D., 1976)

Linda S. Whitton, J.D., Assistant Professor of Law; Valparaiso University (B.A., 1979; J.D., 1996)

Bart Joseph Wolf, Ph.D., Assistant Professor of Geography and Meteorology; University of Wisconsin, Madison (B.S. 1981; M.S., 1984; Ph.D. 1991)

Sin Min Yap, Ph.D., Visiting Assistant Professor of Mechanical Engineering; Michigan Technological University (B.S.C.E., 1986; M.S.M.E., 1989; Ph.D., 1993)

Geri Judith Yonover, J.D., Professor of Law; The University of Chicago (B.A., 1984); Illinois Institute of Technology (J.D., 1983)

Stenius A. Zygmun, Ph.D., Assistant Professor of Physics and Astronomy; Massachusetts Institute of Technology (B.S. Physics, 1984; S.B. Mat. Sc./Eng., 1984; Ph.D., 1998)
University Personnel

M. Suzanne Davids, M.F.A., Part-Time Instructor in Music
June DeForest, M.M., Part-Time Instructor in Music
Terry Dietz, M.A.L.S., Part-Time Assistant Professor of Education
Joyce Helen Douglas, M.S.N., Part-Time Assistant Professor of Nursing
Bruce Allen Evans, M.M., Part-Time Instructor in Music
Jeanette Marion Fischer-Loesiewski, M.S., Part-Time Assistant Professor of Nursing
Michael James Fishmke, Ph.D., Adjunct Professor of Communication
William Lennox Foster, M.M., Part-Time Instructor in Music
Margaret Franson, M.A.L.S., Part-Time Instructor in Sociology
Gary Stephen Germann, J.D., Adjunct Professor of Law
Marcie Lou Gienapp, J.D., Adjunct Professor of Law
Richard Kent Goodnight, Part-Time Instructor in Communication
Juliet Rose Gravar, M.A., Part-Time Instructor in Art
G. Elizabeth Green, B.A., Part-Time Instructor in Theology
Beth A. Henning Gurila, J.D., Adjunct Professor of Law
Gregory David Hanley, J.D., Adjunct Professor of Psychology
John Walter Harris, Ph.D., Part-Time Associate Professor of Psychology
Maria Pojeta Hibbs, Ph.D., Part-Time Assistant Professor of Communication
David L. Hollenbeck, J.D., Adjunct Professor of Law
John E. Hughes, J.D., Adjunct Professor of Law
Diana Elisabeth Ittsche, B.A., Part-Time Instructor in Theology
Joyce E. Johnson-James, M.S.W., Part-Time Lecturer in Social Work
Terry E. Johnson, J.D., Adjunct Professor of Law
Gregory Atpus Jones, M.Div., Part-Time Instructor in Theology
James Leonard Jorgensen, J.D., Adjunct Professor of Law
Dolores Elaine Keller, M.A.L.S., Part-Time Instructor in Music
Dale F. Kempf, M.S.E.E., M.B.A., Part-Time Assistant Professor in the College of Engineering
Linda Joyce Kibler, J.D., Adjunct Professor in the School of Law
James L. Kingsland, Ph.D., Part-Time Associate Professor in Christ College
Diane Marie Kitchell, B.I.D., Part-Time Instructor in Home Economics
Ralph Andrew Klapis, B.M., Part-Time Instructor in Music
Gail Carlson Kost, M.S.N., Part-Time Instructor in Nursing
Ronald James Kurpiera, J.D., Adjunct Professor of Law
Donald Paul Levinson, J.D., Adjunct Professor of Law
Judith Ann Listman, Ph.D., Part-Time Lecturer in Home Economics
Jane Susan Lowenstein, M.A.L.S., Part-Time Instructor in Art
John E. Martin, J.D., Adjunct Professor of Law
Teresa A. Massa, J.D., Adjunct Professor of Law
Julia Mayer McCarthy, M.F.A., Part-Time Assistant Professor of Theatre and Television Arts
Hugh E. McGilgin, Ph.D., Part-Time Assistant Professor; Director of International Studies
Jian-yun Meng, M.A.L.S., Part-Time Instructor in Music
Louise Mondy, M.F.A., Theatre Costumer with rank of Part-Time Assistant Professor
Elaine Moore, M.A.L.S., Acquisitions Librarian with rank of Part-Time Assistant Professor
Roderick Gardner Moore, II, M.S., Part-Time Instructor in Physical Education
Naoko Nagamine, B.A., Part-Time Instructor in Foreign Languages and Literatures
Stephanie Anne Nelson, Ph.D., Adjunct Assistant Professor of Foreign Languages and Literatures
Selma Anderson Ochoa, M.A., Part-Time Assistant Professor of Foreign Languages and Literatures; Director of the Valparaiso University Study Center at Puebla, Mexico
Virginia T. Oram, M.M., Part-Time Instructor in Music
Alan M. Palider, M.M., Part-Time Instructor in Music
Richard Forest Paul, M.S.W., Part-Time Lecturer in Social Work
James M. Pinkerton, B.A., Part-Time Instructor in Communication
Stephen E. Podewell, M.A., Adjunct Instructor in Geography and Meteorology
Mary Louise Poor, M.M., Part-Time Instructor in Music
Mary Lee Sindicnahr Rilley, M.A.L.S., Part-Time Instructor in Music
Gwenn R. Rinkenberger, J.D., Adjunct Professor of Law
Dianna J. Riol, M.S.N., Part-Time Assistant Professor of Nursing
Andrew Paul Rodovich, J.D., Adjunct Professor of Law
Patricia M. Sarkisian, J.D., Adjunct Professor of Law
Barbara J. Schmidt, J.D., Adjunct Professor of Law
Cynthia Ann Schnabel, M.A., Part-Time Instructor in Music
Rin Curtis Selbert, M.S., Part-Time Instructor in Physical Education
Susan M. Severtson, J.D., Adjunct Professor of Law
Lee Anne Smith, M.A.L.S., Part-Time Assistant Professor of Education
Michael J. Smith, A.A., Part-Time Instructor in Home Economics
Norma Jean Acker Sorenson, M.S., Adjunct Instructor in Biology
Charles Scott Steck, M.M., Part-Time Instructor in Music
Curtise O. Stevens, B.A., Part-Time Instructor in Geography and Meteorology
Randall M. Stewart, J.D., Adjunct Professor of Law
Satre W. J. Stuelke, M.F.A., Part-Time Assistant Professor of Art
Morris A. Sunkel, LLM., Adjunct Professor of Law
Verna L. Sweitzer, M.N., Part-Time Assistant Professor of Nursing
E. Gail Tegarden, J.D., Adjunct Professor of Law
Karin L. Thayer, M.A., Adjunct Instructor in Political Science
Robert D. Truitt, J.D., Adjunct Professor of Law
Kaoru Usugui, B.A., Part-Time Instructor in Foreign Languages and Literatures
Nancy Harris Validik, J.D., Adjunct Professor of Law
Joseph S. Vanbekkelen, J.D., Adjunct Professor of Law
Richard E. Watson, M.M., Part-Time Instructor in Music
David M. Welter, J.D., Adjunct Professor of Law
Patricia Lorraine White, M.M., Part-Time Instructor in Music
Eric A. Wignall, M.A., Part-Time Instructor in Communication
E. Louise Williams, B.A., D.D.(Hon.), Part-Time Assistant Professor of Theology
Frank H. Williams, M.S., Part-Time Assistant Professor of Education
Patricia Lynn Wong, M.A., Part-Time Lecturer in Communication
Suzanne Elizabeth Zant, M.S.N., Part-Time Assistant Professor of Nursing
Jill Ann Ziccarelli, M.F.A., Part-Time Assistant Professor of Art
Crista Zivanovic, M.A., J.D., Part-Time Associate Professor of Communication

FACULTY EMERITI, 1993-1994

Rhea Ann Adgate, M.A.L.S., Assistant Professor Emeritus of Economics; Michigan State University (B.S., 1948); Valparaiso University (M.A.L.S., 1973)
Kathryn Espy Aller, M.S. in Ed., Assistant Professor Emeritus of Music; Northwestern University (B.S.E., 1945); M.S. in Ed., 1958); Valparaiso University, American Conservatory of Music
Carlene Heidbrink Bartlett, R.N., M.S., Assistant Professor Emeritus of Nursing; Valparaiso University (B.A., 1946; B.S.N., 1972); University of Arizona (M.S., 1980)
Louis Franklin Bartelt, Jr., LL.M., Louis and Anna Seegers Professor Emeritus of Law; Valparaiso University (B.A., 1944; J.D., 1947); Yale University (LL.M., 1954); University of Wisconsin
William Whiley Bloom, Ph.D., Professor Emeritus of Biology; Valparaiso University (A.B., 1929); The University of Chicago (M.S., 1948; Ph.D., 1954); University of Oregon; Indiana University; University of Tennessee
Wills von Montgomery Boyd, Ph.D., Professor Emeritus of History; University of California, Los Angeles (B.A., 1945; M.A., 1947; Ph.D., 1954)
Ruth M. Brown, R.N., M.S., Associate Professor Emeritus of Nursing; Indiana University (B.S.N., 1963); Purdue University (M.S., 1972)
Vera Rose Bushing, B.S.L.S., Assistant Librarian Emeritus with rank of Associate Professor Emeritus; Valparaiso University (B.A., 1948); The University of Chicago (B.L.S., 1947); Indiana University
Mary M. Crumpacker, Ph.D., Associate Professor Emeritus of Foreign Languages; Butler University (A.B., 1947); The University of Chicago (A.M., 1959; Ph.D., 1965)
Rex Cunningham, M.F.A., Associate Professor Emeritus of English; Rutgers University (A.B., 1933); State University of Iowa (M.F.A., 1959)
William Herbert Daumberman, P.E., M.S., Professor Emeritus of Electrical and Computer Engineering; Bucknell University (B.S. in E.E., 1938); University of Pittsburgh; Illinois Institute of Technology (M.S., 1965)
John Fredrick Detre, Ph.D., Professor Emeritus of Chemistry; State University of Iowa (B.S.Ch.E., 1938); The University of Chicago (M.S., 1945); University of Notre Dame (Ph.D., 1964)
Ruth Ketler Detre, M.S., M.A., Associate Professor Emeritus of Mathematics; Northwestern University (B.S., 1932); The University of Chicago (M.A., 1933; M.S., 1943); Illinois Institute of Technology

1Deceased, August 18, 1993
### Office of the Provost and Vice President for Academic Affairs

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tr>
<td>Provost and Vice President for Academic Affairs</td>
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<td>Director for Admissions Selection</td>
<td>Douglas B. Waterman, M.A.L.S.</td>
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<td>Chicago Area Admissions Representative</td>
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