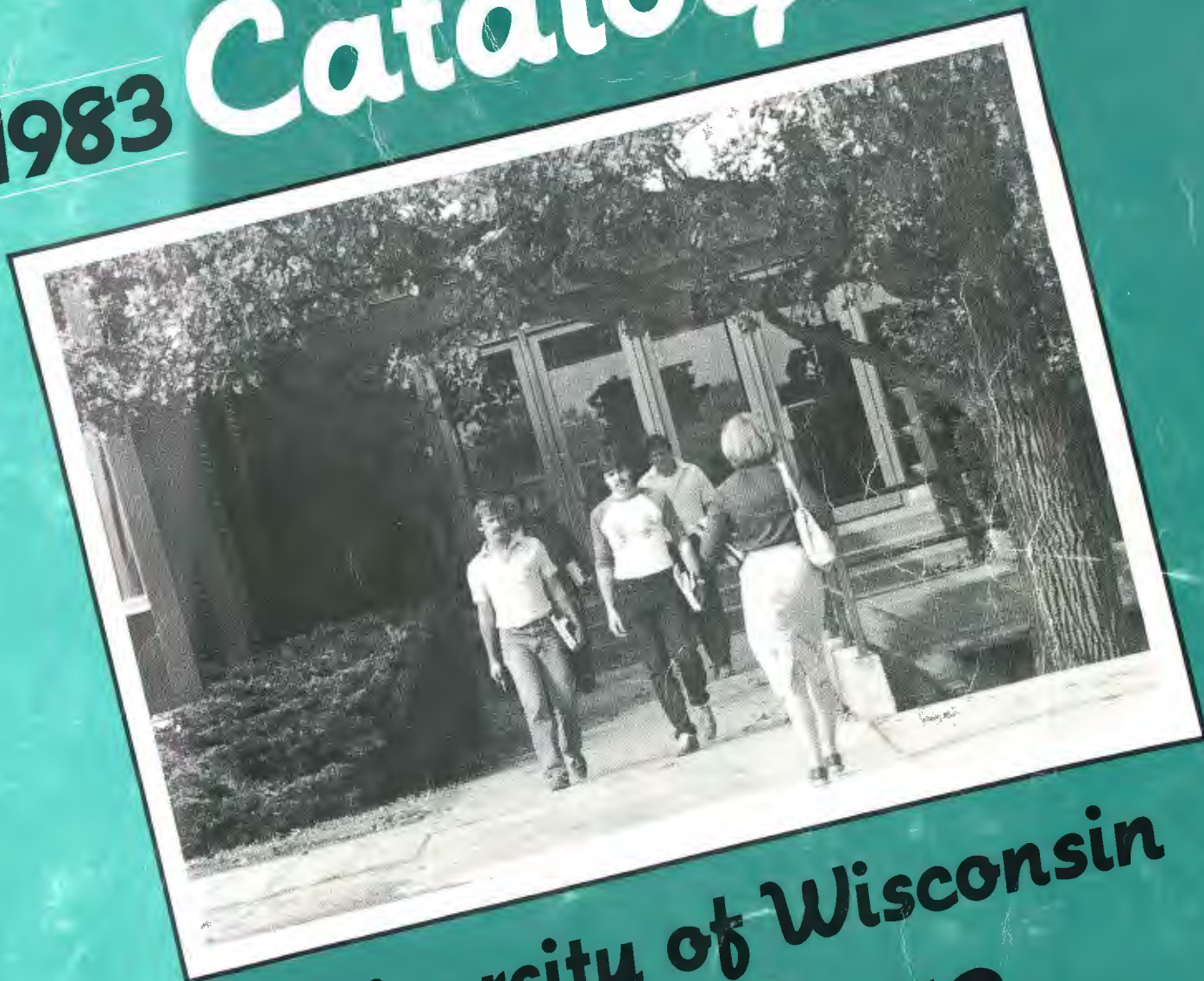


1983 Catalog 1985



University of Wisconsin
Centers

University of Wisconsin Centers Catalog

1983-1985

How to use this catalog

Although you are a student at a specific campus, the institution's policies and procedures are the same for students at all 13 Centers. This catalog is designed to provide you an overview of admissions and financial aid procedures, academic regulations and programs governing the UW Centers. Through careful reading you will discover what the institution can offer you as well as what is expected of you as a student.

You will note that specific information pertaining to your Center, its course offerings, as well as a directory of its faculty and staff are contained in a separate section of this catalog.

This catalog is not a substitute for academic counseling and planning. Assistance in developing your own course of study and in planning for ease in transfer between the Center and other institutions is available through a counselor in your Center's Office of Student Services. This office can also refer you to faculty members who can assist you in planning your academic programs.

Additional information pertaining to the activities, special programs and features of your Center is available through the Office of Student Services on your campus.

Introduction



Table of Contents

	Page
An overview	iv
Center information	
UWC-Baraboo/Sauk County.....	2
UWC-Barron County	4
UWC-Fond du Lac	6
UWC-Fox Valley.....	8
UWC-Manitowoc County	11
UWC-Marathon County	13
UWC-Marinette County	16
UWC-Marshfield/Wood County	18
UWC-Richland	20
UWC-Rock County	22
UWC-Sheboygan County	24
UWC-Washington County	26
UWC-Waukesha County.....	28
Admission, registration and financial aid	32
Associate degree requirements	43
Academic Procedures and Regulations.....	49
Course Descriptions	57
Index	79

This catalog was published in June, 1983, by the Office of Public Information, University of Wisconsin Centers, 149 Frances Street, Madison, WI 53703.

Your questions . . .

Q. What is a University of Wisconsin Center?

A. A Center offers freshman-sophomore level university instruction. Most Center students live in the community in which the Center is located. There are thirteen Centers which are primarily located in rural and growing urban areas of the state.

Q. How do the Centers fit into the University of Wisconsin?

A. The UW System has 15 institutional components: which include 13 universities; the UW Centers and UW-Extension.

Q. Am I eligible for admission?

A. Anyone who might benefit from a college education will be considered for admission to a UW Center. If you graduated from high school or have a high school equivalent certificate such as G.E.D., your chances of being accepted are excellent. Centers give special consideration to individuals who have been out of high school for more than two years and to veterans interested in pursuing a university education.

Q. How do I apply?

A. Applying is simple. Get an application blank from your high school guidance office or any UW admissions office. Complete it, and follow the directions on the form which tell you where the application should be sent.

Q. Is financial aid available? Scholarships? Part-time jobs?

A. Yes. For financial aid information see page 38.

For information about scholarships, contact your local Center.

Your local campus Student Services Office also has information about both on and off-campus jobs.

Q. What degrees can I earn at a Center campus?

A. The UW Centers offer Associate of Arts and Associate of Science degrees for students successfully completing a prescribed program of study. (See page 14 of this catalog for further details.)

Having an associate degree may be an advantage in transferring to certain schools. Several colleges and universities in the state accept the UW Centers associate degree as fulfillment of basic studies or core curriculum requirements. These include: Carroll College, Lakeland College, and the following schools in the University of Wisconsin System: La Crosse, Oshkosh, Platteville, River Falls, Whitewater, Superior.

Q. What special programs will I find at a Center?

A. Many UW Centers offer special programs for basic skills development and tutoring upon request. Several Centers also offer an honors program for exceptional students. Check your local Center for details.

Q. Can I become involved in extra-curricular activities?

A. Definitely! Whether your interests are in student government, drama, music, athletics, outdoor activities, student publications, or other student-related activities, you'll find them on all campuses.

Q. Will my credits transfer?

A. Yes. Credits earned in the University of Wisconsin-Centers are University of Wisconsin credits and will transfer as University of Wisconsin credits to colleges and universities across the country. The UW Centers as an institution is fully accredited by the North Central Association of Colleges and Secondary Schools.

Q. Is housing available in the various Center communities?

A. Off campus housing is available at every Center location. On-campus housing is available at the Marathon Center and at nearby private residence facilities at the Marshfield and Barron Centers.

Q. Will starting at a Center and then transferring to a four-year college be a disadvantage?

A. Various studies by four-year campuses have shown that Center students do very well once they transfer. (In fact, many students earn slightly higher grade point averages after they transfer than they did as a student at a Center.)

Q. What kind of faculty will I find at the UW Centers?

A. You will find a highly qualified and dedicated faculty whose main interest is in teaching. Over 50% of the faculty hold terminal degrees.

Q. Do the UW Centers offer vocational-technical college classes?

A. No. The Centers offer a two-year liberal arts and pre-professional transfer program. No vocational-technical classes are offered. There is a well-developed system of vocational-technical schools throughout Wisconsin. The two systems have different missions and goals, and therefore different classes.

Q. Whom should I contact if I have questions or would like to visit a campus?

A. If you are interested in visiting a particular campus or if you have questions, please contact the Director of Student Services on the campus of your choice. Names, addresses and telephone numbers are included in this catalog.

UW System

Board of Regents

David Beckwith, Milwaukee
Ruth Clusen, Green Bay
Catherine Conroy, Milwaukee
Ody J. Fish, Hartland
Frank H. Heckrodt, Appleton
Edith Finlayson, Milwaukee
M. William Gerrard, La Crosse
Camilla Hanson, Mellen
Robert P. Knowles, New Richmond
Dr. Ben R. Lawton, Marshfield
Frank Nikolay, Abbotsford
Russell O'Harrow, Oconto Falls
Paul R. Shilling, Milwaukee
Gerard Veneman, Port Edwards
Marilyn Zirbel, Bristol

Central Administration— UW-System

Robert O'Neil, President
Katherine Lyall, Vice-President for
Academic Affairs
Robert K. Winter, Jr., Vice President for
Administration
Ruben Lorenz, Vice President and
Comptroller

Board of Visitors—UW-Centers

Barbara Taylor, Baraboo/Sauk County
Russell Brown, Barron County
Walter G. Hollander, Rond du Lac
County
William E. Kellett, Fox Valley
Thomas Rusboldt, Manitowoc County
Doris Ullrich, Marathon County
Robert C. Hood, Marinette County
James J. Boehm, Marshfield/Wood
County
Lloyd H. Hornbostel, Rock County
Jacob C. Hilpertshauser, Sheboygan
County
Allan C. Kieckhafer, Washington County
Martin Frank, Waukesha County

Introduction

A brief history

The thirteen University of Wisconsin Centers as a Unit of the UW System, serves the needs of freshman-sophomore students seeking quality education at a reasonable cost.

The present institution grew out of the merger of the University of Wisconsin and the State University by a legislative act in 1972. As a result of this action, the campuses with their histories rooted in UW-Madison and UW-Extension; the satellite campuses of UW-Green Bay, and the branch campuses of the former State University System became the UW Center System. In July, 1983, the institution became known as the University of Wisconsin Centers. The UW Centers (UWC) is accredited by the North Central Association of Colleges and Schools.

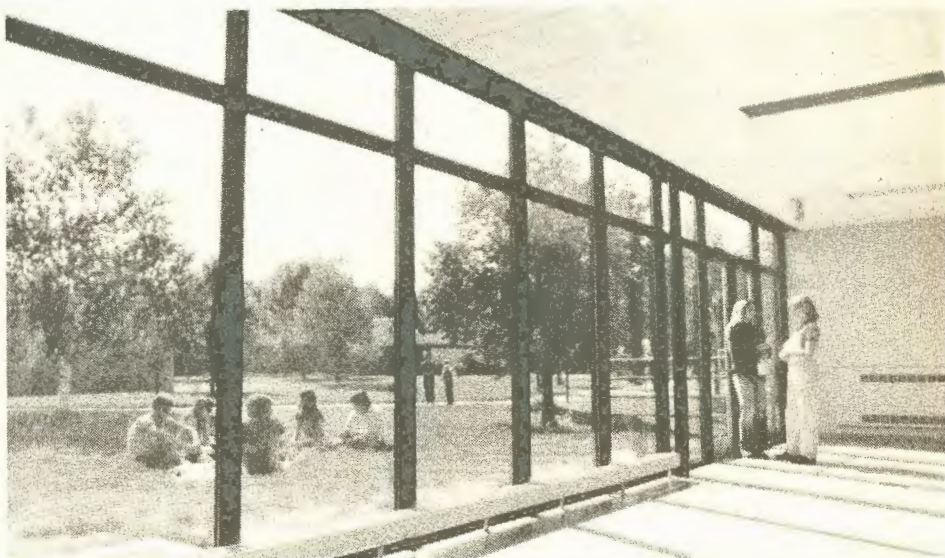
Centers are designed to provide the best possible services for all its students. All campuses have library access to the State Interlibrary Loan System, science laboratories, classrooms, and lecture

halls. Student recreational and meeting facilities are also available on each Center. Facilities have been designed or modified to provide access for the handicapped.

System structure

The executive dean is the chief executive officer of the UW Centers. The executive dean, whose office is in Madison, reports to the president of the University. Assisting the executive dean in the operation of the Centers are the associate executive dean for academic affairs, the assistant executive dean for administrative services, the assistant to the executive dean and their staffs.

Each Center, in turn, is directed by a dean who reports to the executive dean. A vital part of each Center's administrative team is the student services staff. You will become familiar with these capable individuals during your two years at the Center. Let them assist you in your academic, personal, career, and financial aid counseling.



The Mission

I. The System Mission

The University of Wisconsin-Centers share in the mission of the University of Wisconsin System. The mission of this system is to develop human resources, to discover and disseminate knowledge, to extend knowledge and its application beyond the boundaries of its campuses, and to serve and stimulate society by developing in students heightened intellectual, cultural, and humane sensitivities, scientific, professional and technological expertise and a sense of purpose. Inherent in this broad mission are methods of instruction, research, extended education and public service designed to educate people and improve the human condition. Basic to every purpose of the System is the search for truth.

II. The Core Mission

As part of the University of Wisconsin System, the University of Wisconsin Centers (UWC), composed of thirteen two year Centers, shares much of its core mission with other Units of the System.

This unit is entitled to offer associate degree level programs within the context of its role as liberal arts, transfer institutions.

The core mission is as follows:

(a) Meeting the educational needs of students through effective teaching, academic advising, and counseling and through university-sponsored cultural, recreational and extracurricular programs.

(b) Providing a first priority emphasis on teaching excellence.

(c) Providing a base of liberal studies necessary as the foundation for university arts and science degrees, as well as for specialized professional and occupational degrees.

(d) Supporting a commitment to scholarly activity integral to, and supportive of, institutional programs and teaching excellence.

(e) Meeting the off-campus instructional and continuing education needs of citizens in the campus service area (as appropriate to unique program capability) within the context of coordinated

statewide planning of outreach programs.

(f) Providing public service to the surrounding region both as a cultural center and a source of problem-solving support.

(g) Participating in regional consortia and interinstitutional relationships in order to maximize educational opportunity for the people of the area effectively and efficiently through the sharing of resources.

III. The Select Mission

The select mission of the University of Wisconsin Centers is to offer a quality, two-year, liberal arts transfer program to make opportunities available to all qualified students, many of whom could not otherwise afford a university education. The physical facilities of the Centers were constructed with taxes paid by the people of the counties and cities in which the Centers are located to deliver this instructional program and also to meet the educational and cultural needs of the people in their immediate service areas. The select mission includes:

(a) Commitment to the delivery of personalized education, with a special emphasis on teaching excellence.

(b) Commitment to the development, testing and use of more effective teaching methods in support of teaching excellence.

(c) Planning and delivery of paraprofessional programs designed to meet the occupational needs of students and communities, in cooperation with the State Vocational, Technical and Adult Education System in ways consistent with statutory differentiation of the missions of the UW System and the state VTAE System.

(d) Serving as educational centers, through which information and university programs are delivered (with the cooperation of other units of the University System) to the people of their immediate service areas as an integral part of the total University of Wisconsin System outreach effort.

(e) Providing opportunities for cultural enrichment in their immediate service areas.

UW Centers Administrative Staff

Executive Dean
(to be filled by
July, 1983)

VanEyck, Daniel K. (1973)
Associate Executive Dean,
Academic Affairs
B.A., Carleton College
Ph.D., University of Michigan

Kucera, Antone F. (1966)
Assistant Executive Dean,
Administrative Services
B.A., Loras College
M.Ed., DePaul University

Liechty, Thornton A. (1975)
Assistant to the Executive Dean
B.A., Haverford College
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Anhalt, James A. (1969)
Coordinator of Business Services
B.S., University of Wisconsin-Madison

Meier, Gladys (1964)
Registrar
B.S., University of Wisconsin-Madison

Nametz, John (1973)
Coordinator, Financial Aids
B.A., University of Wisconsin-Madison

Stine-Sarow, Marilyn (1977)
Coordinator, Public Information
B.S., Western Michigan University
M.A., Southern Illinois University



The Centers



University of Wisconsin Center— Baraboo/Sauk County

1006 Connie Road, Baraboo, WI 53913 (608)356-8351

Location: The University of Wisconsin Center-Baraboo/Sauk County is located on a scenic 68-acre site overlooking the City of Baraboo and the Baraboo Bluffs.

Student body: Over 525 students were enrolled at UWC-Baraboo during fall 1982. Fifty-three percent of the students were full-time; 47 percent were part-time. More men (280) were enrolled than women (245). Forty-five percent of the students were over the age of 25, 23 percent were between 20-24 and 32 percent were between 18-19. The campus draws students from the cities of Baraboo, Wisconsin Dells, Portage, and Sauk Prairie as well as surrounding communities.

Facilities: The campus includes three modern buildings. Classrooms, laboratories, art studios, greenhouse, and faculty and administrative offices are located in the Administration/Classroom building. The Library-Learning Resource Center is located across the campus. The facility was a pioneer in Wisconsin education in incorporating AV materials into a classroom setting. Student recreational facilities, theater and student services offices are located in the adjoining Student Center.

Special Programs: *Academic*—Selected courses provide the science and liberal arts component of the nursing program for Madison Area Technical College-Reedsburg, Continuing Education Program which includes monthly seminars, Associate Degree Program at Oxford Federal Corrections Institution, College for Kids, Music Clinic, Elderhostel; *Scholarships*—Friends of the Campus Scholarship program; *Lecture and Arts*—movie series, Campus Singers, campus-community theatre. The

Rogues and Vagabonds, campus-community jazz band, civic chorus, brass choir, community band; *Extracurricular*—intramural and varsity sports.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 200
Art 101, 102, 111, 112, 121, 187, 188, 193, 201, 202, 251
Biological Sciences
Bacteriology 101, 299
Botany 130, 291, 299
Physiology 202, 203
Zoology 101
Business & Economics
Business 101, 110, 201, 202, 204, 210
Economics 203, 204
Chemistry 125, 145, 155, 343, 363
Communication Arts 101, 103, 130, 131, 150, 160, 201, 220, 232, 266
Computer Science 110, 211, 252
Engineering
Mechanics 201, 202
English & Literature 101, 102, 200, 203, 204, 205, 209, 211, 227, 251, 290, 297, 299
Foreign Language
French 101, 102, 201, 202, 276
Geography 123, 124, 350
Geology 101, 102, 135
History 101, 102, 105, 119, 120, 270
Interdisciplinary Studies 105
Mathematics 105, 110, 113, 211, 212, 221, 222, 223

Music 071, 072, 073, 074, 075, 076, 077, 078, 170, 171, 172, 173, 174, 273, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 102, 103, 211, 240, 241
Physical Education 001, 014, 016, 018, 019, 027, 203, 204, 213

Physics 141, 142, 201, 202

Political Science 101, 104

Psychology 202, 205, 250, 507, 509, 530, 560

Sociology 101, 130, 134

Administration

Umhoefer, Aural M. (1965)
Dean

B.A., Rosary College
M.S., University of Wisconsin-Madison
Bondeson, Grayce (1979)

Specialist, Library (Oxford)
Chvala, Sharon A. (1977)
Assistant, Continuing Education
Coordinator, Public Information

Gerlach, Janice (1982)
Coordinator, Student Services
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Lind, Samuel (1979)

Director, Oxford College Program
B.S., Northern Michigan University
M.A., Michigan State
Ed.D., Indiana University

Raught, Linda (1968)
Business Manager

Smith, Linda I. (1969)
Coordinator, Continuing Education
B.A., Northeastern State College,
Tahlequah, Okla.

M.S., University of Illinois-Urbana
Stroede, Dennis J. (1968)
Director, Office of Student Affairs
B.A., University of Missouri-Columbia
M.S., University of Wisconsin-Madison
M.A., University of Alabama

Stroede, Mary E. (1968)
 Specialist, Library
 B.A., University of Florida-Gainesville
Vladick, Mark R. (1972)
 Specialist, AV-Services

Faculty

Cole, David W. (1965)
 Professor, English
 B.A., Oberlin College
 M.A., Syracuse University
 Ph.D., University of Wisconsin-Madison
Bechtel, Donald L. (1966)
 Associate Professor, History
 B.S., University of Wisconsin-La Crosse
 M.A., University of South Dakota
 Ed.D., University of South Dakota
Donner, Robert (1969)
 Assistant Professor, Computer Science/
 Physics
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison
Eddy, Jennifer E. (1965)
 Assistant Professor, Chemistry
 B.A., Bemidji State College
 B.S., Bemidji State College
 M.S., Bemidji State College
Etzwiler, David J. (1977)
 Lecturer, Math
 B.S., Saint Joseph's College
 M.S., University of Wisconsin-Madison
Grant, Kenneth B. (1978)
 Lecturer, English
 B.A., DePaul University
 M.A., Marquette University
 Ph.D., Marquette University
Jarley, Paul A. (1982)
 Lecturer, Economics
 B.A., University of Michigan
 M.P.P., University of Michigan
Lind, Diann (1981)
 Lecturer, Geography/Geology
 B.S., Bowling Green University
 M.A., Bowling Green University
Morgan, Steven (1982)
 Lecturer, Music
 B.A., University of Redlands
 M.S., University of Wisconsin-Madison
O'Keefe, Paul (1979)
 Lecturer, History
 B.A., Boston College
 M.A., Boston College
 Ph.D., University of Wisconsin-Madison
Phelps, Janet (1969)
 Associate Professor, Biological Sciences
 B.S., Antioch College, Yellow Springs, Ohio
 Ph.D., University of Wisconsin-Madison
Phelps, Laurence N. (1972)
 Assistant Professor, Biological Sciences
 B.A., Carleton College
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison



Poland, Helene (1982)
 Lecturer, Philosophy
 B.A. College of White Plains
 M.A., Fordham University
 Ph.D., Fordham University
Robkin, Eugene E. (1975)
 Assistant Professor, Math
 B.S., California Institute of Technology-
 Pasadena
 M.A., University of California-Los Angeles
 Ph.D., University of California-Los Angeles
Rundio, Stephen J. III (1976)
 Assistant Professor, Physical Education
 A.B., Guilford College
 M.Ed., University of North Carolina
 Ed.D., University of North Carolina
Schimmel, Dennis J. (1977)
 Lecturer, Psychology
 B.S., University of Wisconsin-Milwaukee
 M.A., Bowling Green State University
 Ph.D., Bowling Green State University
Sivagurunathan, Sreetharasivam (1977)
 Lecturer, Chemistry
 B.S., Newcastle University
 M.S., Iowa State University
Solomon, Isaac (1977)
 Assistant Professor, Math
 B.S., Rajasthan University, India
 M.S., Jodhpur University, India
 M.S., Marquette University
Stich, Gerald L. (1969)
 Professor, Music
 B.A., University of Wisconsin-Madison
 M.M., University of Wisconsin-Madison

Tate, Frank (1970)
 Professor Emeritus, Psychology
 B.S., Eastern Illinois University
 A.M., University of Chicago
 Ph.D., University of Chicago
Waddell, Mark (1980)
 Assistant Professor, Communication Arts
 B.S., University of Wisconsin-Madison
 M.A., University of Wisconsin-Madison
Whitney, John A. (1969)
 Associate Professor, Art
 B.A., Grinnell College
 M.F.A., Rochester Institute of Technology
Wight, Douglas A. (1962)
 Professor, English
 B.A., University of Wisconsin-Madison
 M.A., University of Wisconsin-Madison
Wright, Madeleine F. (1968)
 Associate Professor, French
 License-et-Lettres, University of France
 M.A., University of Wisconsin-Madison
 Ph.D., University Of Wisconsin-Madison
Wright, Michael B. (1978)
 Lecturer, Philosophy
 B.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison
Wright, Robert H. (1967)
 Associate Professor, Sociology
 B.A., University of Texas-Austin
 License-et-Lettres, University of France
 M.A., University of Missouri

University of Wisconsin Center— Barron County

1800 College Drive, Rice Lake, WI 54868 (715)234-8176

Location: The University of Wisconsin Center-Barron County is located 60 miles north of Eau Claire in Rice Lake. The campus is situated south of the city on 135 acres beside the Red Cedar River.

Student body: In fall 1982, 367 students were enrolled; 179 men and 188 women. Most Barron County students attended the Center on a full-time basis; 26 percent of the student body attended classes part-time. Forty-nine percent of the students were between the ages of 18-19; 24 percent between 20-24; and approximately 27 percent were 25 or over.

The students who attend the Barron County Center come from all over north-west Wisconsin including the communities of Barron, Cumberland, Rice Lake, Spooner, Chetek and many others.

Facilities: There are seven buildings on the campus: Ritzinger Hall, Library, Fine Arts Building, Gymnasium, Student Union, Administration Building and Maintenance Building. The Center shares the library, student center and gymnasium facilities with the adjacent campus of Wisconsin Indianhead Technical Institute.

Special programs: *Academic*—observatory, community outreach programs, educational trips to Grand Canyon and to France (biennially), careership-career exploration program; *Lecture and Arts*—community band, summer music clinic, summer amphitheater program sponsored by Barron County Foundation, theater; *Extracurricular*—intramural and varsity sports, newspaper, forensics.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's schedule, or timetable for specific course offerings each term.

Art 101, 111, 112, 121, 183, 185, 221, 222, 223, 224
Astronomy 100
Biological Sciences
 Bacteriology 101
 Botany 109, 130, 250
 Physiology 104
 Zoology 101, 140, 277
Business & Economics
 Business 101, 110, 194, 201, 204
 Economics 203, 204
Chemistry 125, 145, 155
Communication Arts 100, 101, 102, 103, 130, 131, 203, 206, 230, 231, 232, 234, 266
Computer Science 110, 210, 211, 213
Engineering
 Mechanics 201, 202
English & Literature 101, 102, 103, 200, 203, 205, 209, 211, 213, 214, 215, 216, 219
Foreign Language
 French 101, 102, 201, 202
Geography 123, 124, 342, 350
Geology 101, 102
History 101, 102, 105, 106, 289, 290, 295, 297, 298
Interdisciplinary Studies 195, 294, 295
Mathematics 102, 105, 117, 124, 130, 132, 220, 221, 222, 223, 262
Music 071, 072, 073, 074, 076, 077, 078, 107, 115, 121, 130, 136, 170, 171, 172, 173, 271, 272, 275, 276
 Applied: piano, voice, and instrumental music; consult Music Department
Philosophy 101, 211, 241
Physical Education 027, 102, 104, 109, 116, 204, 206, 207, 213, 215
Physics 141, 142, 211, 212, 213

Political Science 101, 104, 125
Psychology 202, 210, 530, 560
Sociology 101, 120, 125, 130, 530

Administration

Meggers, John F. (1966)
 Professor, Dean
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison
Gilbertson, Gene A. (1968)
 Assistant Professor, Admissions Counselor
 B.S., University of Wisconsin-River Falls
 M.A., Winona State College
Hartmann, Eugene L. (1966)
 Professor, Director of Student Services
 B.S., College of St. Thomas
 M.S., University of Wisconsin-Stout
 Ph.D., University of Missouri
Morse, Grant F. (1966)
 Assistant Professor, Head Librarian
 B.A., Ottawa University
 M. Div., Eastern Baptist Theological Seminary
 M.S., New York State University
 M.L.S., New York State University

Faculty

Arntson, Wayne W. (1967)
 Associate Professor, Chemistry
 B.S., University of Wisconsin-Eau Claire
 M.A., University of Northern Iowa
 Ed.D., University of Northern Colorado
Crisler, Dale E. (1966)
 Associate Professor, Physics/Math
 B.S., University of Wisconsin-River Falls
 M.S., Vanderbilt University
 Ph.D., University of Wyoming



Grivna, Dennis (1969)
 Assistant Professor, Biological Sciences
 B.S., University of Wisconsin-River Falls
 M.S., University of Wisconsin-River Falls

Harms, Dennis A. (1967)
 Assistant Professor, Music
 B.S., University of Minnesota
 M.A., Colorado State College

Hasman, Robert H. (1972)
 Assistant Professor, English
 B.S., University of Illinois
 A.B., University of Illinois
 A.M., University of Illinois

Hoelt, Mary E. (1971)
 Assistant Professor, French/Communication Arts
 B.S., University of Wisconsin-Oshkosh
 M.S.T., University of Wisconsin-Eau Claire

Jenkins, David D. (1966)
 Assistant Professor, History
 B.S., University of Wisconsin-La Crosse
 M.S., University of Wisconsin-La Crosse
 D.A., University of North Dakota

Loomer, Harry T., Jr. (1967)
 Associate Professor, Geography
 B.S., University of Wisconsin-Eau Claire
 M.A., Michigan State University

Moffe, Larry D. (1982)
 Instructor, Mathematics
 B.S., Augustana College
 M.A., University of South Dakota

Pannier, James M. (1966)
 Associate Professor, Communication Arts
 B.A., University of Wisconsin-Eau Claire
 M.S., University of Wisconsin-Madison
 Ed.D., Montana State University

Parker, Ronald F. (1969)
 Associate Professor, Physical Education
 B.S., University of Wisconsin-La Crosse
 M.A., Winona State College

Ruedy, Donald H. (1969)
 Associate Professor, Art
 B.S., University of Wisconsin-River Falls
 M.F.A., University of Wisconsin-Madison

Schilling, David H. (1969)
 Assistant Professor, Mathematics
 B.S., University of Wisconsin-Stevens Point
 M.A., San Diego State College

Schmid, Karl N. (1967)
 Assistant Professor, Mathematics
 B.S., University of Wisconsin-River Falls
 M.S., Syracuse University

Stauffer, James M. (1967)
 Associate Professor, Biological Sciences, Zoology
 B.A., Carleton College
 B.S., University of Wisconsin-Eau Claire
 M.S., University of Montana

Thompson, Edward G. (1968)
 Assistant Professor, Vocal Music
 B.S., University of Wisconsin-River Falls
 M.S., University of Wisconsin-Superior

Tollefsrud, Linda (1981)
 Assistant Professor, Psychology
 B.S., University of North Dakota
 Ph.D., University of Texas

Wiesner, Terry (1981)
 Lecturer, Communication Arts
 B.A., University of Wisconsin-Whitewater

Zimmerman, Ruth M. (1967)
 Instructor, English
 B.A., Gustavus, Adolphus College
 M.A., University of Florida

University of Wisconsin Center— Fond du Lac

Campus Drive, Fond du Lac, WI 54935 (414)922-8440

Location: The University of Wisconsin Center-Fond du Lac is located on 183 acres on the northeast side of Fond du Lac, north of East Johnson Street (Hwy. 23).

Student body: Six hundred and nine students were enrolled on the campus during fall 1982. Approximately equal numbers of men and women were enrolled; about 29 percent of those enrolled attended part-time. Approximately 41 percent of students were between the ages of 18-19; 28 percent between 20-24; and 31 percent over the age of 25. Seventy-one percent of the students commuted 10 miles or less to the Center.

Facilities: The Fond du Lac Center has six buildings grouped about a two acre man-made lake. The Center facilities include: a classroom building, science building, library-administration building, student center, physical education/music facility, and a heating plant. Outdoor physical education and recreation facilities include a botanical laboratory, tennis and basketball courts, softball diamonds, an all-weather quarter-mile track, and a soccer field.

Special Programs: *Academic*—Evening Courses Program, non-credit Community Outreach, Center System Library Processing Center, UW-Oshkosh Graduate Practitioner Program, UW-Oshkosh Interim Program, lecture series; *Lecture and Arts*—Annual Madrigal Dinner, lecture series, Readers' Theatre, Community Band, choir, jazz band; *Extracurricular*—intramural and varsity sports, newspaper, interest clubs. The Center also offers Associate Degree Programs at Kettle Moraine and Taycheedah Correctional Institutions.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 200
Art 101, 102, 111, 112, 171, 223, 229, 253, 254
Astronomy 100
Biological Sciences
 Bacteriology 101
 Botany 107, 109, 130, 151, 160, 299
 Physiology 235
 Zoology 101, 105, 107, 109, 151, 160, 234, 237, 299
Business & Economics
 Business 110, 201, 202, 204, 243
 Economics 101, 203, 204, 243
Chemistry 100, 125, 145, 155, 203, 211, 343, 352, 363
Communication Arts 101, 102, 103, 130, 150, 201, 220, 230, 266, 267
Computer Science 110, 211
Education 101
Engineering
 Graphics 102, 113
 Mechanics 201, 202
English & Literature 101, 102, 200, 215, 216, 219
Foreign Language
 Spanish 101, 102
Geography 101, 110, 115, 123, 124, 342
Meteorology 100
History 101, 102, 105, 106, 120, 257, 299
Mathematics 102, 105, 110, 113, 124, 130, 132, 211, 212, 221, 222, 223, 271
Military Science 101, 102, 105, 106, 201, 202, 205, 206, 301, 302, 401, 402
Music 071, 072, 107, 073, 074, 076, 170, 171, 172, 173, 271, 272, 275, 276
 Applied: piano, voice, and instrumental music; consult Music Department
Philosophy 101, 211, 241, 248

Physical Education 005, 006, 007, 009, 014, 016, 017, 018, 027, 040, 043, 047, 119, 204, 206, 209, 213, 215, 291, 299
Physics 120, 141, 142, 201, 202
Political Science 101, 104, 124, 175
Psychology 202, 205, 210, 530, 560
Sociology 101, 120, 125, 130, 250

Administration

Henken, Professor Willard J., Dean (1968)
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison
Clausen, Thomas H. (1974)
 Specialist; Instructional Media
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Stout
Greisch, Richard G. (1969)
 Assistant Professor, Geography
 Admissions and Financial Aids
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Madison
Koch, Paul G. (1969)
 Librarian
 B.S., University of Wisconsin-Madison
 M.S.L.S., University of Wisconsin-Milwaukee
Loehndorf, Allan H. (1968)
 Professor
 Director, Student Affairs
 B.S., M.S., University of Wisconsin-Milwaukee
 Ph.D., Purdue University
Thomas, Kenneth J. (1968)
 Business Affairs/Student Center
 B.S., University of Wisconsin-LaCrosse

Faculty

Armstrong, George M. (1968)
 Associate Professor, Biology
 B.S., University of Wisconsin-Madison
 M.N.S., University of Oklahoma
 Ph.D., University of Oklahoma
Balthazor, Ellen M. (1969)
 Assistant Professor, English
 B.A., St. Norbert College
 M.A., Marquette University

Barisonzi, Judith A. (1976)

Lecturer, English

B.A., Radcliffe College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Barrett, Ronald W. (1970)

Associate Professor, Biology

B.A., Gustavus Adolphus College

M.S., University of Minnesota

Ph.D., University of Minnesota

Bolick, William A. (1969)

Assistant Professor, Psychology

B.A., University of Mississippi

M.A., University of Mississippi

Bowser, Joan M. (1969)

Assistant Professor, English

B.A., South Dakota State University

M.A., University of Wyoming

Griffiths, William P. (1968)

Assistant Professor, Art

B.S., Western Michigan University

M.F.A., University of Wisconsin-Madison

Hayes, Elizabeth L. (1968)

Associate Professor, Biology

B.A., Maryhurst College

M.S., Marquette University

Heil, John B. (1970)

Associate Professor, Physics

B.A., Beloit College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Hetzel, Robert J. (1982)

Assistant Professor, Business

B.B.A., University of Wisconsin-Whitewater

M.S., University of Wisconsin-Whitewater

Holstein, Ruth B. (1975)

Lecturer, Psychology

B.A., MacMurray College

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Kelly, Mary K. (1974)

Assistant Professor, Physical Education

B.S., University of North Dakota

M.A., Mankato State College

Knar, Richard A. (1968)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Eau Claire

M.S.T., Rutgers University

Kosted, Judith A. (1970)

Assistant Professor, Speech

B.S., Southern Illinois University-Carbondale

M.S., Southern Illinois University-Carbondale

McGrew, Ayers (1968)

Assistant Professor, Speech

B.S., Mankato State College

B.A., University of Minnesota

M.A., University of Minnesota

McLane, Margaret E. (1972)

Assistant Professor, History

B.A., Vassar College

M.A., University of Wisconsin-Madison

Ness, Harald M. (1969)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Superior

M.A., Central Michigan University



Noz, Michael P. (1978)

Instructor, Sociology

B.A., University of Illinois

M.A., Northern Illinois University

Oliver, James A. (1970)

Assistant Professor, Geography

B.S., University of Wisconsin-Milwaukee

M.S., University of Wisconsin-Milwaukee

Rigterink, Roger J. (1973)

Associate Professor, Philosophy

B.A., Carleton College

Ph.D., University of Wisconsin-Madison

Shaw, John G. (1969)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Madison

M.S., Notre Dame University

Van Brunt, Nancy L. (1980)

Instructor, Music

B.M., University of Wisconsin-Madison

M.M., University of Wisconsin-Madison

Van Der Vaart, Richard (1977)

Assistant Professor, Physical Education

B.S., University of Wisconsin-La Crosse

M.A., Western Michigan University

Wadzinski, Ivan M. (1968)

Assistant Professor, Chemistry

B.S., University of Wisconsin-Stevens Point

M.S., Purdue University

Wall, Roger (1978)

Assistant Professor, Political Science

B.A., Millikin University

M.A., University of Stockholm

Ph.D., University of Stockholm

Wiler, Carla J. (1974)

Associate Professor, Chemistry

B.S., University of Wisconsin-Oshkosh

M.S., Purdue University

Wiler, Raymond C. (1968)

Associate Professor, Music

B.S., University of Wisconsin-Oshkosh

M.M., Michigan State University

Ph.D., Michigan State University

Wislinsky, Joan E. (1969)

Assistant Professor, Economics

B.S., University of Wisconsin-Oshkosh

M.A.T., Purdue University

University of Wisconsin Center— Fox Valley

1478 Midway Road, Menasha, WI 54952 (414) 735-5577

Location: The University of Wisconsin Center-Fox Valley is on 33 acres midway between Appleton and Menasha, three miles from the north shores of Lake Winnebago.

Student body: Fox Valley students come from Calumet, Outagamie and Winnebago counties. In fall 1982, 37 percent of its students were between 18-19; 28 percent between 20-24; and 35 percent were over the age of 25. Of the 1,175 students enrolled that semester, 525 were men and 650 were women. Approximately 52 percent of its students were enrolled part-time, 48 percent full-time.

Facilities: Two large multi-purpose buildings which include classrooms, cafeteria, library, planetarium, gymnasium, laboratories, radio station, television studio, lecture hall, day care center, soccer field, tennis courts, fine arts theater, art gallery, quiet study areas.

Special programs: *Academic*—Evening courses, outreach seminars for small businesses, off-campus courses, Continuing Education courses through UW-Extension, observatory, day care facilities, career exploration courses; *Scholarship*—Scholarship Program; *Lecture and Arts*—Center art gallery, community theater, lecture and fine arts series, faculty and guest lecture series; *Extracurricular*—Centerfest! sponsored by UW-Fox Cities Foundation, intramural and varsity sports, radio station, literary magazine, interest clubs, newspaper.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student de-

mand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 102, 105, 200, 204, 291, 308, 314, 353

Art 101, 102, 111, 112, 113, 121, 131, 151, 171, 181, 183, 187, 201, 202, 219, 221, 222, 223, 224, 229, 231, 232, 245, 247, 249, 253, 254, 259

Astronomy 100

Biological Sciences

Bacteriology 101

Botany 130

Physiology 235

Zoology 101, 107, 109, 160, 234, 237, 291

Business & Economics

Business 101, 110, 194, 201, 202, 204, 210

Economics 101, 203, 204, 230

Chemistry 100, 125, 145, 155, 203, 211, 214, 244, 343, 352, 363

Communication Arts 100, 101, 102, 103, 130, 131, 201, 203, 204, 220, 266, 299

Education 101

Computer Science 110, 111, 211, 213, 252, 260, 270, 291, 299

Engineering

Graphics 102, 113

Mechanics 201, 202, 203

English & Literature 101, 102, 200, 201, 203, 204, 209, 213, 214, 215, 216, 227, 251, 253, 255, 297

Foreign Languages

French 101, 102, 201, 202

German 101, 102

Spanish 101, 102, 118, 201, 202, 225, 226, 291

Geography 101, 110, 123, 124

Geology 101, 102, 299, 409

History 101, 102, 105, 106, 120, 185, 186, 257, 288

Interdisciplinary Studies 197, 291, 294

Learning Resources 100, 102

Lecture Forum 101

Mathematics 091, 105, 110, 113, 117, 211, 212, 221, 222, 223, 232, 240, 320

Music 070, 071, 072, 074, 075, 107, 170, 171, 172, 173, 271, 272, 273, 275, 276, 295

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 103, 106, 211, 220, 241, 248, 258, 291

Physical Education 006, 007, 009, 016, 018, 025, 027, 028, 204, 206, 207, 213

Physics 141, 142, 201, 202

Political Science 101, 104, 106, 125, 175, 223, 299

Psychology 201, 202, 210, 225, 411, 507, 530, 560, 562

Sociology 101, 120, 130, 131, 134, 293

Administration

Johnson, Rue C. (1973)

Dean

B.A., Brigham Young University

M.A., Brigham Young University

Ph.D., Indiana University

Douglas, Arlene (1980)

Specialist/Public Information

B.A., University of Wisconsin-Whitewater

Eagon, Jim (1980)

Specialist/Administration

B.S., University of Wisconsin-Stevens Point

English, Lyle (Mike) (1980)

Counselor

B.S., University of Wisconsin-Oshkosh

M.S., University of Wisconsin-Oshkosh

Frantz, Thomas (1981)

Specialist, Media Services

B.A., Thiel College

M.S., Clarion State College

Jones, Paul (1982)

Counselor

B.A., Trinity College

M.A., University of Iowa

Ed.S., University of Iowa

Kain-Breese, Aril, (1978)

Specialist/Librarian

B.S., University of Wisconsin-Stevens Point

M.S., University of Wisconsin-Madison

Laus, Christine (1980)

Specialist/Day Care

B.S., University of Wisconsin-Oshkosh



Oakley, Dale (1982)

Program Coordinator, Business Manager

B.A., Western Illinois University

M.S., Western Illinois University

Faculty

Aguero, Jose (1980)

Instructor, Psychology

B.A., Indiana University

M.S., Purdue University

Anderson, Kenneth (1965)

Associate Professor, Communication Arts

B.S., Lawrence University

M.S., University of Wisconsin-Madison

Barrett, Ronald (1976)

Associate Professor, Biology

B.A., Gustavus Adolphus College

M.S., University of Minnesota

Ph.D., University of Minnesota

Collins, Michael (1975)

Assistant Professor, Sociology

B.S., Loyola of Chicago

M.A., University of Notre Dame

Day, William (1981)

Assistant Professor, Music

B.A., University of Dubuque

M.A., University of Iowa

Ducklow, Mary Ellen (1974)

Lecturer, Communication Arts

B.A., University of Wisconsin-Madison

Gazzola, Angelo C., Jr., (1981)

Instructor, Business/Economics

B.S., University of Wisconsin-Green Bay

M.A., University of Wisconsin-Oshkosh

Guither, William (1966)

Professor, Chemistry

B.A., North Central College

M.S., University of New Mexico

Ph.D., University of New Mexico

Hauxhurst, James (1976)

Associate Professor, Biology

B.A., University of California-Santa Barbara

M.A., University of California-Berkeley

Ph.D., University of California-San Diego

Hayes, Patrick (1976)

Assistant Professor, Business/Economics

B.B.A., Eastern New Mexico University

M.B.A., Eastern New Mexico University

Hrubesky, Donald (1973)

Professor, English

B.A., St. Norbert College

Ph.D., Kansas State University

Jazzola, Angelo C., Jr. (1981)

Instructor, Business/Economics

B.S., University of Wisconsin-Green Bay

Jordahl, David (1981)

Assistant Professor, Music

B.M. Ed., Gustavus Adolphus College

M.A., University of Iowa

Keepers, Jerry (1969)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Oshkosh

M.S., Brown University

M.S., University of Wisconsin-Milwaukee

Lewis, Kay (1975)

Lecturer, Mathematics/Business

Administration

B.S., University of Wisconsin-Stevens Point

M.A., University of Iowa

Livingstone, Biganess (1976)

Associate Professor, Art
B.F.A., Massachusetts College of Art
M.Ph., Newton College
M.F.A., University of Wisconsin-Madison

McLaren, Theda B. (1977)

Assistant Professor, Communication Arts
B.A., Beloit College
M.A., University of Montana

Mason, Carol (1960)

Associate Professor, Anthropology
B.A., Florida State University
M.A., University of Michigan
Ph.D., University of Michigan

Minock, Michael (1971)

Associate Professor, Biology
B.A., Stanford University
M.A., California-Northridge
M.S., University of Nebraska-Omaha
Ph.D., Utah State University

Nyman, Terry (1976)

Associate Professor, Mathematics
B.A., Western Michigan University
M.A., Western Michigan University
Ph.D., University of Massachusetts

O'Brien, Michael (1972)

Professor, History
B.A., Notre Dame University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Potash, Marc (1977)

Associate Professor, Psychology
B.A., Utica College of Syracuse University
M.A., Western Kentucky University
M.A., Carleton University-Canada
Ph.D., Carleton University-Canada

Putman, Daniel (1976)

Assistant Professor, Philosophy
B.A., Marquette University
Ph.D., University of Southern California
Rice, Paula (1981)

Lecturer, Art

B.S., University of Michigan
M. Ed., Pennsylvania State University
M.F.A., University of Wisconsin-Madison

Sharma, Virendra (1969)

Associate Professor, Physics/Astronomy
B.S., Agra University of India
M.S., Agra University of India
Ph.D., Colorado State University

Silha, John (1974)

Associate Professor, Business/Economics
B.S., University of Wisconsin-Platteville
M.B.A., Indiana University

Solanke, Ranjit (1983)

Visiting Assistant Professor, Computer
Science

B.S., University of London
M.B.A., University of Rochester

Spencer, Michael (1971)

Associate Professor, Physical Education
B.S., University of Wisconsin-La Crosse
M.S., University of California-Los Angeles

Stahl, Neil (1976)

Associate Professor, Mathematics
B.A., Indiana University

Ph.D., Brown University

Starck, Sandra (1979)

Lecturer, Art
B.S., University of Wisconsin-Stout
M.F.A., University of Tennessee, Knoxville

Varma, Badri (1983)

Assistant Professor, Mathematics
M.Sc., Aligarh Muslim University, India
Ph.D., Simon Fraser University, B.C. Canada

Warrick, Patricia (1966)

Professor, English
B.S., Indiana University
B.A., Goshen College
M.A., Purdue University
Ph.D., University of Wisconsin-Milwaukee

Watt, Jerald (1981)

Assistant Professor, Mathematics
B.S., Michigan Technological University
M.S., University of Southern California
Ph.D., Michigan Technological University

Weis, Leonard (1965)

Associate Professor, Geology
B.S., Harvard University
M.S., Massachusetts Institute of Technology
Ph.D., University of Wisconsin-Madison

White, Larry (1969)

Assistant Professor, Political Science
B.S., Kansas State College
M.S., Kansas State College

D.A., Idaho State University

Wisnewski, Jerome (1983)

Assistant Professor, Economics
B.A., University of Wisconsin-Milwaukee
M.A., University of Wisconsin-Milwaukee

Zimmerman, Lynda (1974)

Assistant Professor, Music
B.M.E., University of Wisconsin-Eau Claire
M.M., East Texas State University

University of Wisconsin Center— Manitowoc County

705 Viebahn Street, Manitowoc, WI 54220 (414) 683-4700

Location: The University of Wisconsin Center-Manitowoc County is located on the southeastern edge of Manitowoc. The 40-acre campus is bounded by Viebahn Street on the north, Lake Michigan on the east, and a 78-acre wooded park on the south.

Student body: In fall 1982, 463 students enrolled in classes at UWC-Manitowoc, including 246 men and 217 women. Virtually all of the students came from Manitowoc County. Thirty-two percent of the students attended part-time. Fifty-two percent of the students were between the ages of 18-19; 26 percent were between 20-24 and 22 percent were 25 or older.

Facilities: One large multi-purpose building, constructed in 1962, houses classrooms; a lecture hall; library, administrative and faculty offices; laboratories for physics, chemistry and the biological sciences; a performing arts room; greenhouse; cafeteria and lounge.

Special programs: *Academic*—evening associate degree program, remedial mathematics program with Lakeshore Technical Institute, student tutoring service, continuing education program, on-campus Business Outreach program with UW-Green Bay, speakers' bureau; *Scholarships*—scholarship program; *Lecture and Arts*—community theater and orchestra, extensive fine arts series, band, jazz, and choral groups; *Extracurricular*—newspaper, intramural and varsity sports, literary magazine.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student de-

mand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 200, 291, 450

Art 101, 102, 111, 112, 121, 171, 187, 201, 223, 224, 229

Astronomy 100

Biological Sciences

Bacteriology 101, 299

Botany 130, 240, 250, 299

Physiology 235

Zoology 101, 103, 105, 234, 277, 299, 515, 516

Business & Economics

Business 201, 202, 204, 243, 297, 299

Economics 101, 203, 204, 230, 243, 297, 299

Chemistry 100, 125, 145, 155, 203, 211, 214, 290, 299, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 201, 203, 230, 232, 234, 266, 298, 299

Computer Science 110, 211, 251, 252, 253, 254, 260, 270, 291, 299

Engineering

Graphics 102, 113

Mechanics 201, 202

English & Literature 101, 102, 200, 201, 203, 204, 209, 213, 214, 215, 216, 227, 251, 253, 255, 290, 297, 298, 299

Foreign Language

French 101, 102

German 101, 102, 201, 202

Geography 110, 115, 123, 124, 277, 291, 299, 350

Geology 100, 135

History 101, 102, 105, 106, 119, 120, 256, 299

Interdisciplinary Studies 105

Lecture Forum 101

Mathematics 105, 110, 113, 117, 124, 211, 221, 222, 223, 240, 271, 299

Music 070, 071, 072, 074, 075, 131, 132, 170, 171, 172, 173, 275, 280, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 103, 106, 211, 241, 258, 291, 299

Physical Education - various 1-credit courses, offered each semester

Physics 110, 141, 142, 201, 202, 291, 299

Political Science 101, 104, 175, 201, 299

Psychology 202, 210, 507, 530, 560, 562

Sociology 101, 120, 125, 130, 134, 138, 291, 299

Administration

Natunewicz, Chester F. (1976)

Dean

B.S., Yale University

M.A., Yale University

Ph.D., Yale University

Bjerke, R.A. (1973)

Librarian, Assistant Professor, German

B.A., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

M.A., University of Minnesota

Ph.D., University of Wisconsin-Madison

Morgan, David W. (1976)

Director, Student Services

B.S., University of Wisconsin-Milwaukee

M.S., University of Wisconsin-Milwaukee

Peters, Bruce D. (1980)

Business Manager

B.S., University of Wisconsin-Stevens Point

Pfeffer, Jane L. (1982)

Specialist, Public Information

B.A., Regis College

Skubal, Susanne (1976)

Advisor, Student Services

B.A., University of Wisconsin-Milwaukee

Faculty

Arendt, Michael J. (1971)

Associate Professor, Music

B.M., St. Norbert College

M.M., Wichita State University

Corrado, Lawrence C. (1969)

Associate Professor, Physics and Astronomy

B.S., DePaul University

M.S., Arizona State University, Tempe

Ph.D., Arizona State University, Tempe

Demmon, William E. (1970)

Assistant Professor, Mathematics

B.S., South Dakota School of Mines

M.S., South Dakota School of Mines

Emmett, Paul J. (1978)
Lecturer, English
B.S., Loyola University - Chicago
M.S., Illinois Institute of Technology
Ph.D., University of Chicago

Flannery, Richard (1982)
Assistant Professor, Political Science
A.B., Syracuse University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Garrow, Frances D. (1953)
Lecturer, Business
B.B.A., University of Wisconsin-Madison

Gottschall, Cathleen (1980)
Lecturer, Physical Education
B.S., Brooklyn College
M.S., University of Kentucky

Graetz, Kenneth R. (1974)
Assistant Professor, Art
B.A., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee
M.F.A., University of Wisconsin-Milwaukee

Gratz, David K. (1976)
Assistant Professor, English
B.A., Wesleyan University
M.A., Syracuse University
Ph.D., Syracuse University

Gruenbaum, Ellen (1982)
Assistant Professor, Sociology/Anthropology
A.B., Stanford University
M.A., University of Connecticut
Ph.D., University of Connecticut

Hallinan, Patricia (1979)
Lecturer, Economics
B.A., University of Illinois
M.A., University of Wisconsin-Milwaukee

Hart, Charles (1982)
Assistant Professor, Biology
B.S., University of Wisconsin-Eau Claire
M.S., University of Iowa
Ph.D., University of Iowa

Helgeland, Catherine (1980)
Lecturer, Geography
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Jarosch, Richard (1981)
Associate Professor, Chemistry
B.S., University of Wisconsin-Eau Claire
M.S., University of Iowa

Maes, Michael (1977)
Lecturer, Engineering
B.S.M.E., University of Wisconsin-Madison

Nibbelink, Herman W. (1972)
Associate Professor, English
B.A., Calvin College
M.A., University of Iowa

Purchatzke, Leroy A. (1967)
Associate Professor, Chemistry
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Schuh, Martha (1982)
Instructor, Math
A.B., Oberlin College
M.A., University of Illinois

Semmes, David H. (1966)
Associate Professor, Communication Arts
B.S., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison

Singh, Bhagat (1970)
Professor, Mathematics and Computer Science
B.Sc., Agra University (India)
M.Sc., Agra University (India)
M.S., University of Illinois
Ph.D., University of Illinois

Sontag, Charles R. (1967)
Professor, Biological Sciences
B.S., Carroll College
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Tepley, Wesley (1967)
Lecturer, Music
B.M., Lawrence University
M.M., Eastman School of Music

Trask, Kerry A. (1972)
Associate Professor, History and Political Science
B.A., Hamline University
M.A., University of Minnesota
Ph.D., University of Minnesota

Tsang, Sarah (1980)
Assistant Professor, Psychology
B.A., University of Windsor
M.A., University of Windsor
Ph.D., University of Windsor

White, V. Alan (1981)
Assistant Professor, Philosophy
A.B., Northwest Nazarene College
M.A., University of Tennessee
Ph.D., University of Tennessee



University of Wisconsin Center— Marathon County

518 South 7th Avenue, Wausau, WI 54401 (715) 845-9602

Location: The University of Wisconsin Center-Marathon County is located on 6.5 acres in Wausau next to Marathon Park. Wausau is located in north central Wisconsin, about 140 miles north of Madison.

Student body: The Center draws students from Marathon, Lincoln, Shawano, Langlade and Clark counties. In fall 1982, 1,268 students were enrolled representing nearly equal numbers of men and women. Approximately 66 percent of the students were full-time and 34 percent attended part-time. Forty-eight percent of the students were between 18-19 years old; 24 percent between 20-24; and 28 percent were over 25. Approximately 65 percent of the students are employed part-time.

Facilities: UWC-Marathon County provides accommodations for 152 students in a residence hall. Other buildings include a science hall with extensive lab facilities; art studio; fieldhouse with racketball court, weight room, swimming pool and gymnasium and a classroom-office complex with fine arts room, library, student center, bookstore, planetarium, greenhouse and cafeteria.

Special programs: *Academic*—evening courses, honors program for academic achievers; *Community Outreach Program*. *Scholarship*—scholarship program sponsored by UW-Marathon Foundation; *Lecture and Arts*—University Series including lectures, films, music, theater and dance, community theater, band, orchestra and choral groups; *Extracurricular*—newspaper, varsity and intramural sports.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 102, 105, 106, 200, 204, 222, 291, 293, 299, 302, 308, 314, 322, 353, 400, 450

Art 101, 102, 111, 112, 113, 121, 141, 161, 187, 188, 201, 202, 211, 223, 224, 229, 231, 232, 241, 243, 245, 247, 253, 254, 259, 269

Astronomy 100, 200

Biological Sciences

Bacteriology 101, 299

Botany 100, 130, 250, 291, 299

Physiology 235

Zoology 101, 234, 250, 291, 299

Business & Economics

Business 201, 202, 204, 243

Economics 101, 203, 204, 230

Chemistry 125, 145, 155, 203, 211, 244, 299, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 201, 203, 204, 232, 348

Computer Science 110, 120, 211, 227, 252, 297, 299

Education 200, 300

English & Literature 101, 102, 103, 120, 200, 201, 203, 204, 209, 211, 213, 214, 215, 216, 217, 227, 251, 253, 255, 297, 298

Engineering

Graphics 102, 113

Mechanics 201, 202

Foreign Language

French 101, 102, 201, 202, 221, 222, 223, 225, 226, 275, 276, 291

German 101, 102, 201, 202, 221, 222, 225, 226, 275, 276

Spanish 101, 102, 201, 202, 221, 222, 225, 226, 275, 291

Geography 110, 123, 124, 125, 342

History 101, 102, 119, 120, 126, 127, 198, 211, 219, 254, 256, 257, 285, 286, 299

Interdisciplinary Studies 105

Lecture 101

Mathematics 105, 110, 113, 117, 124, 130, 132, 211, 212, 221, 222, 223, 240, 320

Music 070, 071, 072, 073, 074, 170, 171, 172, 173, 174, 271, 272, 275, 276, 280

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 102, 103, 106, 201, 211, 220, 226, 241, 248, 253, 258, 291

Physical Education 001, 002, 005, 006, 008, 009, 012, 014, 016, 017, 018, 019, 020, 025, 027, 028, 029, 030, 031, 032, 034, 041, 042, 044, 047, 055, 056, 058, 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 113, 114, 115, 116, 118, 204, 206, 211, 213, 291, 299

Physics 107, 141, 142, 201, 202

Political Science 101, 104, 106, 116, 124, 175, 222, 223, 299

Psychology 201, 202, 203, 204, 210, 224, 225, 411, 507, 509, 530, 560

Sociology 101, 120, 130, 134, 138, 170, 291, 299, 357, 530

Administration

Portch, Stephen R. (1976)

Dean, Assistant Professor, English
B.A., University of Reading, England
M.A., The Pennsylvania State University
Ph.D., The Pennsylvania State University

Koch, James (1970)

Business Manager
B.A., University of Wisconsin
M.B.A., University of Wisconsin-Madison

Nash, Jordan (1970)

Director, Student Services
B.S., University of Wisconsin-Platteville
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison



Runkel, John (1974)

Counselor/Advisor

B.A., Lawrence University

Smith, Kay (1978)

Counselor/Coordinator, Public

Information/Student Services

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Strebig, Judy (1972)

Librarian

B.A., Eastern Michigan University

M.A., Western Michigan University

Borger, Gary (1971)

Associate Professor, Biological Sciences

M.S., Pennsylvania State

Ph.D., University of Wisconsin-Madison

Burger, Angela (1965)

Professor, Political Science

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Case, Joel (1982)

Instructor, Chemistry

B.S., University of Minnesota

Ph.D., Kansas State University

Chen, John (1977)

Lecturer, Music

B.M., Stetson University

M.M., Southern Illinois University

Chevalier, Joseph (1966)

Associate Professor, French

B.A., Southern University

M.A., University of Wisconsin-Madison

Crabtree, Koby (1966)

Professor, Biological Sciences

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Dahle, Richard (1963)

Associate Professor, Art

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Fitzgerald, John (1963)

Associate Professor, Music

B.M., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Fleming, Thomas (1978)

Instructor, Art

B.F.A., Pennsylvania State

M.F.A., University of Minnesota

Forde, John (1967)

Associate Professor, Anthropology

B.S., Lawrence University

M.S., University of Oregon

Gillett, Philip (1953)

Professor, Mathematics

B.A., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Faculty

Barrington, Byron (1960)

Professor, Psychology

M.S., University of Chicago

Ph.D., University of Chicago

Bauer, Dennis (1975)

Lecturer, Art

Chicago Art Institute

Gonzalez, Frank (1981)
 Assistant Professor, Engineering and Mathematics
 M.S., University of Florida
 Ph.D., University of Florida

Grahls, Francis Lincoln (1975)
 Assistant Professor, Sociology
 B.A., Hofstra University
 M.A., Columbia University

Grahls, Joan (1976)
 Lecturer, Mathematics
 B.S., University of Wisconsin-Stevens Point

Grdinic, Marcel (1966)
 Professor, Chemistry
 M.S., University of Zagreb (Yugoslavia)
 Ph.D., University of Zagreb (Yugoslavia)

Grinde, Harlan (1969)
 Assistant Professor, History
 B.A., St. Olaf
 M.A., University of Wisconsin-Madison

Hendricks, Bryan (1973)
 Associate Professor, Psychology
 M.A., University of Illinois
 Ph.D., University of Illinois

Hessert, Nancy (1975)
 Instructor, Spanish
 B.S., Northwestern University
 M.A., University of Wisconsin-Madison

Hosler, Douglas (1972)
 Associate Professor, Philosophy
 M.A., Yale
 Ph.D., University of Pittsburgh

Hosler, M. Bellamy (1972)
 Associate Professor, Music
 M.F.A., Carnegie Institute
 Ph.D., University of Wisconsin-Madison

Karkar, Yaqub (1966)
 Professor, Economics
 M.A., University of California-Berkeley
 Ph.D., University of Indiana

Kelly, John (1963)
 Associate Professor, Chemistry
 B.S., Bethany Nazarene
 M.S., University of Mississippi

Knutson, Judy (1981)
 Lecturer, Physical Education
 B.S., Mankato State University
 M.A., Mankato State University

Lorence, James (1966)
 Professor, History
 M.S., University of Wisconsin-Milwaukee
 Ph.D., University of Wisconsin-Madison

McBee, Keith L. (1983)
 Assistant Professor, Business
 B.S., University of West Virginia
 M.S., University of West Virginia

Mergendahl, Roger (1959)
 Professor, English
 B.A., Bowdoin University
 M.A., Boston University

Milani, Hamid (1982)
 Lecturer, Economics and Mathematics
 B.A., Tehran University
 M.A., Western Illinois University

Musolf, Gene (1958)
 Associate Professor, Geography and Geology
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Nakamaru, Robert (1982)
 Lecturer, Sociology
 B.A., Western Illinois University
 B.A., Sangamon State University
 M.S., University of Wisconsin-Madison

Okroy, Peter (1970)
 Associate Professor, English
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Olson, Larry (1962)
 Assistant Professor, Mathematics
 B.S., University of Wisconsin-LaCrosse
 M.S., University of Wisconsin-Madison

Osypowski, Edward (1971)
 Associate Professor, Physics
 B.S., University of Wisconsin-Milwaukee
 Ph.D., University of Wisconsin-Madison

Pierce, Frank (1964)
 Associate Professor, German
 A.B., Franklin & Marshall
 M.A., University of Colorado

Podrasky, Joseph (1969)
 Assistant Professor, English
 A.B., University of St. Louis
 M.A., University of St. Louis

Quinn, Robert (1963)
 Associate Professor, Communication Arts
 M.F.A., Chicago Art Institute, Goodman School
 Ph.D., University of Wisconsin-Madison

Salli, Arne (1964)
 Associate Professor, Biological Sciences
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Schmitz, William (1959)
 Professor, Biological Sciences
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Stremlau, Duane (1967)
 Associate Professor, Physical Education
 M.S., University of Colorado
 Ph.D., University of Wisconsin-Madison

Ware, Linda (1964)
 Associate Professor, English
 B.A., Ohio Wesleyan
 M.S., University of Wisconsin-Madison

Welton, Russell (1961)
 Associate Professor, Physics
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Whitney, John (1969)
 Associate Professor, English
 B.A., University of Michigan
 M.A., University of Michigan

Wood, John (1982)
 Assistant Professor, Mathematics
 M.A., University of Minnesota
 Ph.D., University of Minnesota

University of Wisconsin Center— Marinette County

Bay Shore, Marinette, WI 54143 (715)735-7477

Location: The 36-acre campus is located on the shores of Lake Michigan's Green Bay. The center of the City of Marinette as well as the State of Michigan are within five-minutes driving distance.

Student body: Enrollment during the fall semester of 1982 was 481 students. Two hundred-seventy women and 211 men were enrolled; 44 percent of the students attended part-time. Approximately 36 percent were between the ages of 18-19; 27 percent between 20-24; and 37 percent were over 25.

Over one-third of the students are Menominee County, Michigan, residents, regarded as Wisconsin residents for tuition purposes due to a compact agreement between the states.

Facilities: Hub of student life is the student union-lounge-cafeteria wing of the administration-science building. A second wing contains a day care center and classrooms. Art facilities include a 394-seat theatre, gallery, visual arts studios and photographic laboratories. A library with open stacks for 30,000 volumes overlooks the bay. Completing the four-building complex is a field house for physical education.

Special programs: *Academic*—Evening Associate Degree Program, college skills laboratory, off-campus courses, interdisciplinary computer assisted instructional programs, open computer laboratory, early childhood learning center for pre-school age. *Scholarship*—Talentship Grants based on academic potential and leadership sponsored by UW-Marinette Foundation; *Lectures and Arts*—Theatre on the Bay productions (including summer series), faculty lecture series, endowed faculty development fund; *Extra-curricular*—Phi Theta Kappa-national junior college honorary, intramural and

varsity sports, returning adult students' club, ski club, newspaper, winter carnival.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or time-table, for specific course offerings each term.

Anthropology 100, 200
Art 101, 102, 111, 112, 121, 161, 181, 183, 193, 201, 221, 223, 245, 269

Astronomy 100
Biological Sciences

Bacteriology 101
Botany 130, 240
Physiology 235
Zoology 103, 234

Business & Economics

Business 101, 110, 194, 201, 202, 204, 210, 243
Economics 101, 203, 204, 230, 243

Chemistry 125, 145, 155, 203, 211, 244, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 231, 232, 234, 298, 299

Computer Science 110, 210, 211, 213, 254, 260

Engineering

Mechanics 201, 202

English & Literature 101, 102, 200, 201, 203, 209, 211, 216, 217, 227, 253, 297, 298

Geography 101, 110

History 101, 102, 119, 120, 255, 280, 297, 299

Mathematics 102, 105, 110, 113, 117, 221, 222, 223, 271

Music 071, 072, 075, 170, 173, 174, 273, 295

Applied: piano, voice, and instrumental music consult; Music Department

Philosophy 101, 211

Physical Education 002, 005, 006, 007, 013, 016, 017, 018, 027, 028, 043, 048, 055, 056, 058, 062, 204, 206, 208, 213, 216

Physics 201, 202

Political Science 101, 104

Psychology 201, 202, 205, 509, 530, 560, 561, 562

Sociology 101, 120, 125, 130, 131, 134, 138, 160, 170, 291, 299, 530

Administration

Schmidtke, William A. (1965)

Dean

B.A., Lawrence University

M.S., University of Wisconsin-Madison

Bilek, Mary Jean (1967)

Public Information Coordinator/Lecturer-Journalism

B.A., University of Wisconsin-Madison

Blazer, Mary S. (1966)

Continuing Education Program Coordinator, UW-Extension

B.S., University of Wisconsin-Oshkosh

Dealy, Ross (1979)

Librarian

B.A., Southern Methodist University

M.A., University of Washington

Ph.D., Indiana University

M.L.S., University of Oregon

Steinert, Susan A. (1982)

Specialist, Student Services

B.A., Cardinal Stritch College

Faculty

Atwood, Daniel M. (1977)

Assistant Professor, English

B.A., University of Wisconsin-Madison

M.A., George Washington University

Ph.D., Ohio State University

Bedrosian, Allen J. (1969)

Professor, Chemistry

B.S., University of Massachusetts

Ph.D., Rutgers State University



Berry, James E. (1969)

Associate Professor, Economics
B.S., Murray State University
M.S., University of Kentucky
Ph.D., University of Kentucky

Espenscheid, Lyle L. (1967)

Assistant Professor, Math/Engineering
Graphics

B.A., Wheaton College

M.A., University of Northern Iowa

Giebler, David J. (1981)

Lecturer, Music

B.M., Fort Hayes State University

M.M., University of Wisconsin-Madison

Hemr, Constance L. (1978)

Lecturer, Mathematics

B.A., Eastern Michigan University

M.A., Eastern Michigan University

Hieser, Rex A. (1978)

Assistant Professor, Psychology

B.S., Michigan State University

M.A., University of Iowa

Ph.D., University of Iowa

Johnson, Wendel J. (1969)

Associate Professor, Biology

B.S., Michigan State University

M.S., Michigan State University

Ph.D., Purdue University

Krog, Carl E. (1966)

Associate Professor, History/Geography

B.A., University of Chicago

M.A., University of Chicago

Ph.D., University of Wisconsin-Madison

LaMalfa, James T. (1969)

Associate Professor, Art

B.S., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

M.F.A., University of Wisconsin-Madison

Richards, Charles W. (1969)

Associate Professor, Chemistry

B.S., University of Wisconsin-Stevens Point

M.S., University of Oklahoma

Williams, Herbert L. (1966)

Associate Professor, Speech/Theater

B.A., Mount Union College

M.S., University of Wisconsin-Madison

Wresch, William C. (1975)

Instructor, English/Computer Science

B.A., San Francisco State University

M.A., San Francisco State University

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

University of Wisconsin Center— Marshfield/Wood County

2000 West 5th Street, Marshfield, WI 54449 (715)387-1147

Location: The University of Wisconsin Center-Marshfield/Wood County is located on 96 acres in the city of Marshfield.

Student body: Approximately 661 students enrolled at UWC-Marshfield during fall 1982. Seventy percent of its students commuted from 10 miles or less to the campus. The enrollment included 469 women and 192 men. (A factor in this enrollment profile was the large number of students enrolled in pre-nursing studies.) Forty percent of the students were between the ages of 18-19; 20 percent between 20-24; and 40 percent over 25. Fifty-three percent of the students attended part-time.

Facilities: Major buildings at this center include: the W.W. Clark Administration Building; Aldo Leopold Science Building; A.G. Felker Student Center; Fine Arts Building complex, with the Learning Resource Center, Lecture-Performance Hall, music rehearsal rooms and art studios; Gymnasium; and University Apartments for student housing.

Outdoor recreational facilities include lighted tennis courts, soccer fields, football field, baseball diamond and golf green, and the university arboretum.

Special programs: *Academic*—Evening Associate Degree Program, Continuing Education Program offering credit and non-credit courses, cooperative academic program with St. Joseph's Hospital School of Nursing, cooperative program in respiratory therapy with Mid-State Technical Institute; *Scholarship*—Talentship scholarships based on academic potential and leadership sponsored by UW-Marshfield Foundation; *Lectures and Arts*—community theater, orchestra and choral groups, fine arts programs consisting of 12 events; *Extra-curricular*—intramural and varsity

sports, newspaper, Outing Club, Business Club, Intersarsity Fellowship Club.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Art 101, 102, 103, 111, 112, 121, 141, 151, 187, 188

Astronomy 100, 200

Biological Sciences

Bacteriology 101, 299

Botany 130, 299

Physiology 202, 203

Zoology 101, 109, 155, 291, 299

Business & Economics

Business 101, 194, 201, 202, 204, 210

Economics 203, 204

Chemistry 100, 124, 125, 145, 155, 203, 211, 214, 233, 244, 272, 299, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 201, 202, 203, 230, 232, 234, 348, 349

Computer Science 100, 110, 130, 211, 213, 243, 252

Engineering

Mechanics 201, 202

English & Literature 101, 102, 103, 200, 201, 203, 213, 214, 215, 216, 297

Foreign Language

French 101, 102, 201, 202

Spanish 101, 102, 201, 202

Geography 101, 115, 123, 124, 130, 299, 341, 342, 350

Geology 101

History 101, 102, 105, 106, 119, 120

Interdisciplinary Studies 294, 295

Lecture Forum C101, 102

Mathematics 091, 105, 110, 113, 117, 211, 221, 222, 223, 262

Music 070, 071, 072, 074, 075, 170, 171, 172, 173, 174, 271, 272, 275, 276, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 211

Physical Education 005, 017, 018, 027, 028, 041, 042, 043, 058, 102, 113, 115, 116, 117, 121, 122, 213

Physics 110, 141, 142, 201, 202

Political Science 101, 104

Psychology 201, 202, 205, 250, 299, 507, 530, 560, 562

Sociology 101, 120, 125, 130, 138, 160, 170, 250, 291, 299

Administration

Koopman, Norbert (1964)

Dean

B.S., University of Wisconsin-Madison

M.S., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Allmandinger, Barbara (1981)

Coordinator-Continuing Education

Ft. Wayne Business School

Bentzler, Geogiane (1965)

Librarian

B.S., University of Wisconsin-Oshkosh

M.A., George Peabody College for Teachers

Blezien, Paul (1980)

Counselor/Advisor

B.S., University of Wisconsin-Stevens Point

Hendler, Peter (1968)

Business Manager

B.S., University of Wisconsin-Stevens Point

Neumann, Jack (1973)

Specialist, Instructional Development

A.S., University of Wisconsin Center-

Marshfield/Wood County

A.S., North Central Technical Institute

Scidmore, Herbert (1966)

Director, Student Services

B.S., University of Wisconsin-River Falls

M.S., University of Wisconsin-Madison

Sokolowski, Neil (1971)

Public Information

Lecturer, Communication Arts

B.S., University of Wisconsin-Milwaukee

M.A., Marquette University

Faculty

Alexander, James (1964)

Associate Professor, English
B.A., Brooklyn College
M.A., Notre Dame University
M.A., University of Minnesota

Bauer, Peter (1966)

Assistant Professor, Mathematics
B.S., University of Wisconsin-Madison
M.S., Northwestern University

Biederwolf, Robert (1967)

Associate Professor, Music
B.M., University of Wisconsin-Madison
M.M., University of Wisconsin-Madison

Bitner, Thomas (1969)

Assistant Professor, Geography
B.S., University of Wisconsin-Superior
M.A., Indiana State University

Christensen, Richard (1966)

Assistant Professor, Mathematics
B.S., University of Wisconsin-Stevens Point
M.A., Northwestern University

Clemens, Joann (1976)

Lecturer, Mathematics
B.S., University of Wisconsin-Madison

Cooksey, Ben (1974)

Assistant Professor, Biology
B.S., Kansas State College
M.S., Kansas State College
Ph.D., Kansas State University

Danou, Constantine (1971)

Assistant Professor, Sociology
B.A., Illinois State University
M.A., Illinois State University

Dennis, Donald (1970)

Associate Professor, History
B.S., Westminster College
M.A., University of Utah
Ph.D., University of Utah

Flannery, Elizabeth (1981)

Lecturer, Communication Arts
B.A., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Frazer, Georgette (1979)

Lecturer, Economics
B.S., Goddard College
M.S., University of New Hampshire
Giacobazzi, Frederic (1981)

Lecturer, English
B.A., Wayne State University
M.A., Wayne State University

Glasman, Robert Jr. (1978)

Instructor, Music
B.S., Weber State College
M.A., University of Northern Colorado

Hall, Philip (1970)

Associate Professor, Chemistry
B.A., Augustana College
M.A., University of Wisconsin-Madison
Halloran, Donal (1965)

Assistant Professor, Biology
B.S., University of Massachusetts
M.Ed., University of Massachusetts

Harrington, John (1968)

Associate Professor, Physical Education
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Leonard, Margaret (1965)

Associate Professor, Chemistry
A.B., Milwaukee Downer College
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Marty, Thomas (1967)

Associate Professor, Chemistry
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Mertens, Robert (1980)

Assistant Professor, Art
B.F.A., University of Wisconsin-Madison
M.F.A., University of Illinois

Peterson, James (1966)

Assistant Professor, Physics
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Riesen, Anne-Jose (1968)

Assistant Professor, French
B.S., Université de Lausanne, Switzerland

Rindfleisch, Gregory (1966)

Associate Professor, Communication Arts
B.A., Mankato State College
M.A., Mankato State College

Shenouda, Salah (1974)

Assistant Professor, Business/Economics
B.S., Alexandria University, Egypt
M.A., Eastern Michigan University
M.A., Eastern Michigan University

Starrett, Raymond (1976)

Associate Professor, Psychology
B.A., California State University-Long Beach
M.A., Ohio State University

Waddell, Eloise (1981)

Lecturer, Biology
B.S., University of Wake Forest
M.S., University of Wisconsin-Oshkosh



University of Wisconsin Center— Richland County

Highway 14 West, Richland Center, Wisconsin 53581 (608)647-6186

Location: The University of Wisconsin Center-Richland campus is located in the southwestern Wisconsin city of Richland Center midway between LaCrosse and Madison on U.S. Highway 14.

Student body: The Richland campus enrolled 305 students during fall 1982. Approximately 70 percent of the students attended classes full-time. One hundred sixty-four students were women and 141 were men; 49 percent of the students were 18-19; 22 percent between 20-24; and 29 percent over the age of 25.

The campus draws students from Richland County, Sauk, Grant, Iowa, Vernon and Juneau counties.

Facilities: The 135-acre campus has six main buildings including the Miller Memorial Library, Wallace Student Center, General Classroom Building, Science Building, the Roadrunner Gymnasium, and the Administration Building.

Outdoor facilities include an athletic field, tennis and basketball courts, a demanding cross country course, and an area for winter recreational activities.

Special programs: *Academic*—Evening Associate Degree Program, tutoring services, study skills workshop, shared facilities with UW-Extension of Richland County, lecture series for senior citizens; *Scholarship*—program sponsored by Foundation; Lectures and Arts—campus-community theater, campus-community fine arts program in art, music, drama; *Extracurricular*—varsity-intramural sports, cross-country ski course, newspaper, literary magazine, adult learners support group, Springfest.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Art 101, 102, 111, 112, 141, 161, 180, 181, 193
Astronomy 100
Biological Sciences
Bacteriology 101
Botany 109, 130
Forestry 120
Natural Resources 170
Physiology 104, 235
Zoology 101, 140, 234, 250
Business & Economics
Business 101, 110, 201, 202, 210
Economics 101, 203, 204
Chemistry 125, 145, 155, 244, 343
Communication Arts 100, 101, 103, 131
Computer Science 110, 211, 213
Education 200, 251, 283, 300, 330
Engineering
Graphics 102, 113
Mechanics 201, 202
English & Literature 101, 102, 200, 213, 214, 215, 216, 227, 297, 298
Foreign Language
German 101, 102
Geography 110, 120, 124, 341
Geology 101, 102
History 101, 102, 105, 106, 203, 213, 290, 293, 299
Lecture 102, 103
Mathematics 081, 091, 105, 110, 113, 117, 221, 222, 223, 232, 271
Music 071, 072, 075, 130, 136, 170, 171, 172, 173, 174, 295, 299
Applied: piano, voice, and instrumental music; consult Music Department
Philosophy 101, 211, 220, 241
Physical Education 021, 028, 101, 102, 104, 109, 115, 116, 118, 202, 204, 206, 207, 208, 209, 210, 212, 213

Physics 141, 142, 201, 202
Political Science 101, 104
Psychology 201, 203, 507, 560
Sociology 101, 120, 134, 160

—In addition, Independent Study Courses (291 & 299 numbers) are offered in most subject areas.

Administration

Gray, Donald R. (1979)
Dean
B.S., Mount Union College
Ph.D., Michigan State University
Poole, John D. (1971)
Director, Admissions & Activities
B.S., University of Wisconsin-Platteville
Walsh, Phyllis A. (1974)
Librarian
B.A., Milton College
M.A., University of Wisconsin-Madison
Wentz, Barbara J. (1969)
Business Manager
A.S., University of Wisconsin Center-Richland

Faculty

Aagaard, James K. (1976)
Instructor, Music
B.A., St. Olaf College
M.A., University of Northern Iowa
Albrecht, John F. (1976)
Lecturer, Chemistry
B.S., Arkansas State College
B.D., Austin Presbyterian Theological Seminary
M.S., Tulane University
Birkett, Margaret Jean (1968)
Assistant Professor, English
B.S., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
Blackmore, Floyd H. (1969)
Associate Professor, Biological Sciences
B.S., University of Illinois-Urbana
Ph.D., University of Illinois-Urbana



Bower, Jerry L. (1967)
Associate Professor, History
B.S., University of Wisconsin-Stevens Point
M.A., Michigan State University
Ph.D., Michigan State University
Cavanaugh, Clifton C. (1979)
Lecturer, Physics/Computer Science
B.S., Morningside College
M.S., Ohio State University
Deckert, Garrett A. (1967)
Associate Professor, Geography/Geology
B.S., University of Wisconsin-LaCrosse
M.A.T., Indiana University
Drennan, William R. (1981)
Lecturer, English/Communication Arts
B.A., University of Florida
M.A., University of South Florida
Fellows, Patricia (1980)
Lecturer, Physical Education/Athletics
B.S., Michigan State University
M.S., Purdue University

Griffith, Dan R. (1979)
Assistant Professor, Psychology &
Education
B.A., Wabash College
M.A., Ohio State University
Ph.D., Ohio State University
Hall, William W. (1968)
Assistant Professor, Mathematics
B.S., U.S. Military Academy-West Point
M.A., University of Illinois
M.S., University of Illinois
Haney, Emil B. (1979)
Associate Professor, Business/Economics
B.S., Ohio State University
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison
Hirschy, Robert A. (1967)
Associate Professor, Biological Sciences
B.S., Wheaton College
M.S., University of Wisconsin-Madison

Houck, Marilyn A. Loft (1974)
Lecturer, Art
B.S., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
Kohn, Coy A. (1977)
Lecturer, Mathematics
B.S., University of Wisconsin-LaCrosse
M.S., University of Wisconsin-LaCrosse
Schrivier, Alice J. (1967)
Assistant Professor, Mathematics
B.S., University of Wisconsin-Eau Claire
M.S., University of Mississippi
Certificate of Engineering, Iowa State
University
Tyndall, Howard (1979)
Lecturer, Engineering
B.S.M.E., Marquette University
Voelker, Paul (1972)
Assistant Professor, English
B.S., Purdue University
M.A., Purdue University
Ph.D., University of Wisconsin-Madison

University of Wisconsin Center— Rock County

2909 Kellogg Avenue, Janesville, WI 53545 (608)755-2823

Location: The University of Wisconsin Center-Rock County is located in Janesville, 40 miles south of Madison, and 80 miles southwest of Milwaukee.

Student body: In fall 1982, 868 students enrolled at UWC-Rock County. Women students slightly out-numbered men (468 to 400). Fifty-six percent of the students attended the Center part-time; 42 percent of students were over the age of 25. Approximately 72 percent of Rock's students came from the Janesville-Beloit area.

Facilities: The 50-acre commuter campus includes the administration building and student center (Smith Hall); a large classroom building which houses the science laboratories and 65,000 volume library (Andrews Hall); and the Cultural Center which includes a 350-seat theater, gymnasium, art, music and drama departments.

Special programs: *Academic*—Evening Associate Degree Program, Skills Development Center including tutoring, college orientation workshop for pre-college students or interested adults, bachelor's and master's degrees in business in cooperation with UW-Extension and UW-Whitewater, extensive film library, summer music clinic, College for Kids; *Scholarships*—varied scholarships; *Lecture and Arts*—Annual Madrigal Dinner, community band, jazz groups, lecture and fine arts series, film series; *Extracurricular*—special support group for adult students, varsity and intramural sports, newspaper, career interest groups.

Course offerings

The following courses may be offered at least once during a two-year period.

Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 105, 200

Art 101, 102, 111, 112, 121, 141, 187, 188, 201, 202, 223, 224, 229, 241, 243, 247, 249

Astronomy 100

Biological Sciences

Bacteriology 101

Botany 130, 160

Physiology 235

Zoology 101, 160, 234

Business & Economics

Business 201, 202, 204, 243

Economics 101, 203, 204, 243

Chemistry 100, 125, 145, 155, 343, 352, 363

Communication Arts 100, 101, 103, 130, 131, 150, 231, 232, 234, 266

Computer Science 110, 211

Engineering

Mechanics 201, 202

English & Literature 101, 102, 200, 216, 297, 298

Foreign Language

French 101, 102, 118, 119, 201, 202,

221, 222, 223, 225, 226, 275, 276

Spanish 118, 201, 202, 225

Lecture 101

Geography 101, 110, 123

History 101, 102, 119, 120, 123, 124, 126, 127, 183, 198, 222, 293

LEA 100, 102, 104, 105

Mathematics 081, 091, 105, 110, 113, 124, 211, 212, 220, 221, 222, 223, 240, 320

Music 071, 072, 074, 075, 131, 170, 171, 172, 173, 174, 271, 272, 273, 275, 276

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 101, 211, 226, 253

Physical Education 002, 009, 012, 016, 018, 027, 032, 033, 121, 213

Physics 141, 142, 201, 202

Political Science 101, 104, 106, 175, 185, 222

Psychology 201, 202, 205, 560

Sociology 101, 120, 130, 131, 160, 530

Administration

Walterman, Thomas W. (1973)

Dean

B.A., Augustana College

M.A., University of Iowa

Ph.D., Washington University

Buchen, David (1979)

Audio Visual Specialist

B.A., University of Wisconsin-Whitewater

M.E.P.D., University of Wisconsin-Whitewater

Derby, Douglas W. (1974)

Business Manager

B.A., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Horn, Robert M. (1967)

Counselor

B.S., University of Wisconsin-Madison

M.S., Pennsylvania State University

Lenox, Gary J. (1967)

Librarian

B.A., University of Minnesota

M.A., University of Wisconsin-Madison

Minahan, Chris (1977)

Public Information Specialist

Michigan State University

Rubin, Larry (1979)

Director of Student Services

B.A., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Ph.D., University of Wisconsin-Madison

Vander Meulen, Bonnie J. (1981)

Assistant Director-Student Services

B.S., Springfield College

M.S., University of Wisconsin-Madison

Faculty

Allen, Duane L. (1969)

Associate Professor, Philosophy

B.A., University of Wisconsin-Madison

M.A., University of Wisconsin-Madison

Amundson, Delyle (1969)

Assistant Professor, Mathematics

B.S., University of Wisconsin-Platteville

M.S., University of Wyoming

Berke, Richard E. (1968)
Professor, English
B.A., University of Illinois-Urbana
M.A., University of Wisconsin-Madison

Bliss, Mitchell (1978)
Lecturer, Journalism
B.A., Alfred University

Borgeson, Victor (1982)
Assistant Professor, Communication Arts
B.S., Winona State University
M.A., University of Northern Colorado
M.F.A., University of Houston

Brandes, Stuart (1967)
Professor, History
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Christianson, Lars (1969)
Associate Professor, English
B.A., Augustana College
M.A., University of Wisconsin-Madison

Fiorina, Frank J. (1966)
Associate Professor, French
B.S.Ed., Southern Illinois University
M.A., University of Wisconsin-Madison

Goding, Lloyd A. (1970)
Associate Professor, Chemistry
B.S., University of New Mexico
M.S., University of New Mexico
Ph.D., University of New Mexico

Groth, Philip G. (1982)
Assistant Professor, Sociology
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Hardin, Nancy Shields (1967)
Professor, English
B.A., University of Texas
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Holt, Robert C. (1968)
Associate Professor, Music
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Madison

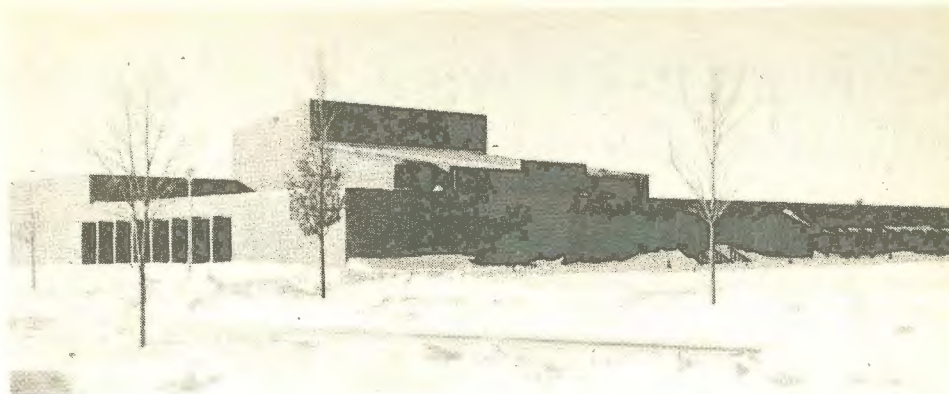
Hornbostel, Julia (1966)
Associate Professor, English
B.A., Florida State University
M.A., Indiana University

Kinnaman, Theodore D. (1966)
Professor, Music
B.M.Ed., Northwestern University
M.M., Northwestern University

Liss, Frederick (1982)
Assistant Professor, Mathematics
B.A., University of Notre Dame
M.A., University of Wisconsin-Madison

Luthar, Rajindar S. (1967)
Assistant Professor, Mathematics
B.A., Murray College
M.A., University of Illinois-Urbana

Mory, Peter R. (1967)
Associate Professor, Physical Education
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison



Murray, David G. (1969)
Associate Professor, Physics
B.A., Carleton College
M.S., University of Wisconsin-Madison

Rice, Marion M. (1966)
Associate Professor, Biology
B.A., De Pauw University
M.A., De Pauw University
Ph.D., University of Wisconsin-Madison

Rust, Charles C. (1968)
Professor, Zoology
B.S., University of Wisconsin-Whitewater
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Schlais, Harold E. (1972)
Associate Professor, Mathematics
B.S., University of Wisconsin-Oshkosh
M.A., Arizona State University
Ph.D., Arizona State University

Scott, Everett D. (1972)
Assistant Professor, Art
B.F.A., University of Utah
M.A., University of Wisconsin-Madison
M.F.A., University of Wisconsin-Madison

Shen, Shu-Chin (1979)
Associate Professor, Economics
B.A., Tsing-Hua University
M.A., Columbia University

Stabb, Martin A. (1966)
Assistant Professor, Chemistry
B.S., Beloit College
M.S., University of California-Berkeley

Stenstrom, Georgina (1979)
Lecturer, Spanish
B.A., Grinnell College
M.A., University of Chicago

Storch, Robert D. (1969)
Professor, History
B.A., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison

Williams, Barbara J. (1969)
Professor, Geography
B.A., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Wimmer, Mary Alice (1967)
Assistant Professor, Art
B.F.A., St. Mary of the Woods College
M.S., University of Wisconsin-Madison
M.F.A., University of Wisconsin-Madison

Winter, Kenneth M. (1976)
Assistant Professor, Business
B.A., St. Anselm's College
M.B.A., Northeastern University

Wong, Bernard (1974)
Associate Professor, Anthropology
B.A., Berchman's College
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Skills development staff

Ehlke, Sarah (1982)
Specialist/Mathematics and Science
B.S., University of Wisconsin-Madison
M.S., Loyola University

Eisenmann, Kurt (1981)
Counselor
B.A., Westmore College
M.S., University of Wisconsin-Madison

O'Halloran, Mary Beth (1979)
Coordinator, Skills Development
B.A., St. Ambrose College
M.S.Ed., University of Wisconsin-Platteville

Maloney, Mary Ann (1981)
Specialist, Mathematics and Writing
B.A., Northern Michigan University
M.A., Northern Michigan University

University of Wisconsin Center— Sheboygan County

One University Drive, Sheboygan, WI 53081 (414)459-3700

Location: The University of Wisconsin Center-Sheboygan County is located on a 73.5-acre site on the western edge of the city of Sheboygan.

Student body: About 695 students enrolled at UW-Sheboygan during the fall semester, 1982. The student body was equally divided between men and women; 35 percent of the students attended part-time. Forty-eight percent were between the ages of 18-19; 27 percent between 20-24; and 25 percent were over 25.

Approximately 61 percent of the students commute fewer than five miles to campus. Students from many surrounding communities are also in attendance at the Center.

Facilities: The campus includes a main building, learning-resources center, fine arts building (including theatre), and gymnasium. The grounds provide tennis courts, areas for field sports, and a natural terrain for cross-country running and skiing.

Special programs: *Academic*—Evening Associate Degree Program; evening academic/career counseling, tutoring, UW-Extension-Outreach program located at the Center; *Lecture and Arts*—lecture and fine arts series, community theater, film series, woodwind and jazz ensembles, campus singers; *Extracurricular*—newspaper, intramural and varsity sports, special interest groups.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum

changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 105, 200, 202, 291
Art 101, 102, 103, 111, 112, 121, 131, 141, 187, 188, 231, 253, 254, 259
Astronomy 100
Biological Sciences
 Bacteriology 101
 Botany 130, 250, 299
 Physiology 202, 203
 Zoology 101, 250, 299
Business & Economics
 Business 101, 110, 201, 202, 204, 243, 297
 Economics 101, 203, 204, 230, 243, 297
Chemistry 100, 125, 145, 155, 203, 211, 214, 244, 290, 299, 343, 352, 362, 363
Communication Arts 100, 101, 102, 103, 130, 131, 150, 160, 201, 203, 204, 220, 230, 232, 266, 268
Computer Science 100, 110, 210, 211, 251, 260, 270, 291
Education 200
Engineering
 Graphics 102, 113
 Mechanics 201, 202
English & Literature 101, 102, 200, 201, 203, 204, 205, 209, 211, 213, 214, 227, 251, 253, 290, 297, 298
Foreign Language
 Spanish 101, 102, 201, 202, 291
Geography 101, 115, 120, 123, 124, 130, 277, 297, 341, 342, 349
History 101, 102, 119, 120, 127, 211, 219, 255, 290
Mathematics 091, 102, 105, 110, 113, 124, 211, 212, 221, 222, 223, 320
Music 070, 071, 072, 074, 075, 131, 170, 171, 172, 173, 271, 272, 273, 295, 299
 Applied: piano, voice, and instrumental music; consult Music Department
Philosophy 101, 103, 106, 211, 241, 258
Physical Education 002, 003, 004, 005, 006, 008, 009, 016, 018, 027, 043, 047, 202, 203, 206, 207, 211, 212, 213, 215, 216
Physics 141, 142, 201, 202
Political Science 101, 104, 106, 124, 175, 201, 222, 223
Psychology 201, 202, 203, 208, 210, 225, 507, 560

Sociology 101, 120, 130, 134, 170, 530

Administration

Bailey, Kenneth M. (1972)
 Dean; Adjunct Professor, Communication Arts
 B.B.A., Case Western Reserve University
 M.A., Case Western Reserve University
 Ph.D., University of Iowa
Borer, Dale E. (1982)
 Program Coordinator
 UW-Extension
 B.S., University of Wisconsin-La Crosse
 M.S., University of Wisconsin-La Crosse
 M.S., University of Wisconsin-La Crosse
 Ed.S., University of Wisconsin-La Crosse
Mortenson, Thomas L. (1976)
 Business Manager
 B.S., Rockford College
Quicker, Sharon R. (1973)
 Specialist, Library
 B.A., Lakeland College
Strakulski, Peter C. (1979)
 Public Information Coordinator
 B.S., Boston University
West, Betsy L. (1974)
 Counselor, Student Services
 B.A., University of Iowa
 M.A., University of Iowa
Westfall, Susanne J. (1965)
 Librarian
 B.S., University of Wisconsin-Milwaukee
 M.L.S., University of Wisconsin-Milwaukee
Zimny, Leonard F. (1970)
 Director, Student Services
 B.B.A., Loyola University
 M.S.I.R., Loyola University

Faculty

Anderson, James L. (1981)
 Assistant Professor, Business
 B.A., University of Michigan
 M.B.A., University of Michigan

Ball, Neil M. (1968)
Associate Professor, Chemistry
B.S., University of New Hampshire
M.S., University of New Hampshire
Ph.D., University of Wisconsin-Madison

Bang, James S. (1963)
Associate Professor, Sociology
B.S., Mississippi State University
M.A., Mississippi State University
Ph.D., University of Wisconsin-Madison

Flannery, Richard F. (1978)
Assistant Professor, Political Science
A.B., Syracuse University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Gates, John L. (1969)
Associate Professor, Music
B.M., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Gottshall, Cathleen B. (1977)
Lecturer, Physical Education
B.S., Brooklyn College
M.S., University of Kentucky

Graunke, Dean F. (1964)
Associate Professor, Communication Arts
B.S., University of Nebraska
M.A., University of Nebraska

Grittinger, Thomas F. (1968)
Associate Professor, Biological Sciences
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Milwaukee

Gross, James F. (1971)
Assistant Professor, Computer Science
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Hansell, William H. (1965)
Associate Professor, English
B.A., LaSalle College
M.A., University of Florida
Ph.D., University of Wisconsin-Madison

Heidt, James G. (1965)
Associate Professor, Geography
B.A., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Homstad, Alice A. (1975)
Lecturer, Spanish
B.A., University of Wisconsin-Whitewater
M.S., University of Wisconsin-Milwaukee

Hughes, William E. (1965)
Professor, Music
B.M., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Jarosch, Richard M. (1966)
Associate Professor, Chemistry
B.S., University of Wisconsin-Eau Claire
M.S., University of Iowa

Kaepfel, Albert R. (1965)
Assistant Professor, Physics
B.Ed., University of Wisconsin-Whitewater
M.S., New Mexico Highlands University

Karn, Edwin D. (1965)
Assistant Professor, History
B.A., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison

Korb, Kenneth W. (1961)
Professor, Geography
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Leet, Juli A. (1972)
Lecturer, Communication Arts
B.S., University of Wisconsin-LaCrosse
M.A., University of Wisconsin-Superior

Lomberg, Doris E. (1964)
Professor, Economics
B.A., Mount Holyoke College
M.A., Columbia University
Ph.D., University of Wisconsin-Madison

Louzecky, David J. (1977)
Assistant Professor, Philosophy
B.S., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Margrett, Robert J. (1969)
Associate Professor, English
B.A., St. John Fisher College
M.A., Niagara University

Marquardt, Lee C. (1964)
Assistant Professor, Mathematics
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Millicia, Joseph, Jr. (1976)
Associate Professor, English
B.A., Case Western Reserve University
M.A., Columbia University
Ph.D., Columbia University

Peneski, Thomas J. (1969)
Assistant Professor, Mathematics
B.A., Rockhurst College
M.A., University of Wisconsin-Madison

Scherf, Barrett P. (1972)
Lecturer, Biological Sciences
B.S., University of Wisconsin-Madison
M.S.T., University of North Dakota

Snyder, John J. (1969)
Associate Professor, Physical Education
B.S., University of Wisconsin-Platteville
M.S., University of Washington

Steinberg, Charlene J. (1948)
Professor, Chemistry
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Tobin, G. Jean (1976)
Associate Professor, English
B.A., University of Wisconsin-Madison
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Zemba, James E. (1967)
Associate Professor, Art
B.S., Western Michigan University
M.F.A., Cranbrook Academy of Art



University of Wisconsin Center— Washington County

400 University Drive, West Bend, WI 53095 (414) 338-5200

Location: The University of Wisconsin Center-Washington County is located on 87 acres of a glacier-sculpted terrain on the southwest side of West Bend.

Student body: In fall 1982, Washington County enrolled approximately 758 students; 382 women and 382 men. Approximately 35 percent of the students attended classes part-time.

The 1982 fall enrollment indicated that approximately 48 percent of the students were between 18-19 years-old; 25 percent between 20-29; and 27 percent over the age of 30.

The campus draws students from over 30 Kettle Moraine communities; however, approximately 66 percent of the Center's students commute ten miles or less to the institution.

Facilities: The campus complex includes classrooms, faculty administrative offices, auditorium, gymnasium, ceramic and art studios, music ensemble and practice rooms, student center, and bookstore. An adjoining library includes an extensive collection of books, periodicals and records as well as computer terminals and a reading/writing lab.

Special programs: *Academic*—evening courses, special topics and lecture series, observatory, student support services in peer-counseling, basic skills, Writing Forum Lecture Series for English students, *Lecture and Arts*—campus-community performance groups in music and theater, lecture and fine arts event; *Extracurricular*—varsity and intramural sports, non-traditional-age student drop-in meetings, Phi Theta Kappa-national junior college honorary, weekly newspaper, special interest groups.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 200
Art 101, 102, 111, 112, 187, 188, 231, 232, 238, 239, 253, 254
Astronomy 100, 291
Biological Sciences
 Bacteriology 101
 Botany 100, 130, 291, 299
 Physiology 235
 Zoology 101, 103, 234, 291, 299
Business & Economics
 Business 101, 110, 201, 202, 204, 243, 297
 Economics 101, 203, 204, 230, 243
Chemistry 100, 125, 145, 155, 203, 211, 214, 244, 299, 343, 352, 363
Communication Arts 100, 101, 103, 130, 131, 201, 203, 231, 232, 234
Computer Science 110, 211
Education 200
Engineering 100
 Graphics 102, 113
 Mechanics 201, 202
English Literature 101, 102, 200, 201, 203, 204, 209, 213, 214, 215, 216, 253, 255, 297, 299
Foreign Language
 German 101, 102, 201, 202
Geography 101, 110, 115, 120, 123, 124, 125, 291, 297, 299, 342, 350
History 101, 102, 111, 112, 115, 120, 198, 255, 260, 299
Lecture Forum 101, 102, 103
Mathematics 081, 091, 102, 105, 110, 113, 117, 211, 212, 221, 222, 223, 320
Music 070, 071, 072, 074, 075, 076, 077, 170, 171, 172, 173, 271, 272, 275, 276, 280
 Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 002, 005, 101, 211, 248, 291
Physical Education 002, 005, 016, 018, 027, 041, 043, 058, 102, 104, 115, 117, 118, 122, 203, 205, 206, 213
Physics 141, 142, 201, 202
Political Science 101, 104, 175, 201
Psychology 201, 202, 203, 205, 299, 507, 530, 560, 562
Sociology 101, 120, 125, 130, 131, 134, 299, 530

Administration

Thompson, Robert O. (1973)
 Dean

B.A., Earlham College
 M.A., University of Chicago
 Ph.D., University of Chicago
Baldwin, Roland A. (1970)
 Director of Student Services
 B.A., Brigham Young University
 M.A., Brigham Young University

Bigler, Nancy (1976)
 Specialist, Library
 B.S., Ball State University
 M.A., Ball State University
Fitz, Thomas (1967)
 Associate Librarian, Assistant Professor
 A.B., Southwestern College
 M.Div., Drew University
 S.T.M., Drew University
 M.A., University of Denver

Gumm, Robert (1974)
 Specialist, Audio Visual
Murphy, Michael (1983)

Associate Director, Student Services
 B.S., University of Wisconsin-Oshkosh
 M.S., University of Wisconsin-Oshkosh
Moss, Ronald S. (1969)

Business Manager
 B.S., University of Utah
Wise, A. Charles (1975)
 UW-Extension Outreach Coordinator
 B.S., Springfield College
 M.S., Springfield College

Faculty

Anderson, Kent C. (1972)
Associate Professor, Philosophy
B.S., Iowa State University
Ph.D., University of Wisconsin-Madison

Asch, Albert J. (1968)
Associate Professor, Music
B.M., University of Kentucky
M.A., University of Kentucky

Ayer, Peter F. (1969)
Associate Professor, Music
B.A., Beloit College
M.A., University of Kentucky

Bigler, Clair E. (1975)
Assistant Professor, English
B.A., Ball State University
M.A., Ball State University
Ph.D., University of Wisconsin-Madison

Brigham, Thomas J. (1968)
Associate Professor, Phy. Ed.
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Britton, Gary L. (1967)
Associate Professor, Mathematics
B.A., Dakota Wesleyan University
M.S., South Dakota School of Mines and Technology

Cahill, Michael E. (1974)
Assistant Professor, Physics/Astronomy
B.S., Manhattan College
M.S., University of Illinois
Ph.D., University of Illinois

Cahill, Rotraut C. (1974)
Assistant Professor, Mathematics/Computer Sciences
B.A., Douglas College
M.A., University of Rochester
Ph.D., University of Illinois

Clark, Judith A. (1974)
Associate Professor, English
B.S., University of Wisconsin-Eau Claire
M.A., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Milwaukee

Cleek, Richard K. (1970)
Associate Professor, Geography
B.A., University of Texas
M.A., University of Texas

Coakley, Carol J. (1968)
Lecturer, English
B.S., Marquette University
M.A., Marquette University

Craker, Loren (1980)
Lecturer, Engineering
B.S., University of Wisconsin-Madison

Diamanti, Joseph M. (1965)
Associate Professor, Chemistry
B.S., King's College
M.S., University of Vermont

Dommissse, Edwin J. (1967)
Associate Professor, Geography
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee



Ford, Bradford A. (1982)
Assistant Professor, Communication Arts
B.A., Wayne State University
M.F.A., University of Southern Mississippi

Gomes, Lawrence J. (1979)
Assistant Professor, Economics
B.A., Dacca University, Bangladesh
M.A., Dacca University, Bangladesh
M.A., Cleveland State University

Grimm, Alan A. (1959)
Associate Professor, Chemistry
B.S., University of Wisconsin-Madison
M.S., Marquette University

Gross, Thomas C. (1966)
Associate Professor, Art
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee
M.F.A., University of Wisconsin-Milwaukee

Guminski, Margaret M. (1978)
Assistant Professor, Psychology
B.A., University of Illinois
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Huehner, David R. (1972)
Associate Professor, History
B.A., University of Illinois
M.A., University of Illinois
Ph.D., University of Illinois

Kempthorne, Dion Q. (1966)
Professor, English
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Krevisky, Stephen (1981)
Instructor, Mathematics
B.S., City College of New York
M.S., Syracuse University

Meidam, Miles T. (1969)
Associate Professor, Sociology
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Muendel, John (1974)
Associate Professor, History
B.S., Columbia University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Pearson, Betty A. (1979)
Lecturer, Communication Arts
Public Information Specialist
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee

Peterson, Roger (1981)
Assistant Professor, Mathematics
B.A., Northwestern University
Ph.D., Ohio State University

Saad, Sami M. (1972)
Associate Professor, Botany/Bacteriology
B.S., American University of Beirut
M.S., American University of Beirut
Ph.D., University of Wisconsin-Madison

Schaefer, Wayne F. (1977)
Assistant Professor, Zoology
B.E.S., Brigham Young University
M.S., University of Wisconsin-Milwaukee
Ph.D., Brigham Young University

Tremel, K. Anne (1982)
Assistant Professor, Business
B.A., St. Norbert College
M.S., University of Wisconsin-Milwaukee

Van Der Vaart, Richard (1977)
Assistant Professor, Physical Education
B.S., University of Wisconsin-La Crosse
M.A., Western Michigan University

Wall, Roger (1978)
Assistant Professor, Political Science
B.A., Miliken University
M.A., University of Stockholm
Ph.D., University of Stockholm

Werner, Steven E. (1974)
Assistant Professor, History
B.A., Lawrence University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

University of Wisconsin Center— Waukesha County

1500 University Drive, Waukesha, WI 53186 (414) 544-8825

Location: Located in the geographic center of Waukesha County, the University of Wisconsin Center-Waukesha County covers 86 acres, one mile south of Interstate 94 at the Hwy T exit.

Student body: In fall 1982, 2,204 students enrolled, including 1,035 men and 1,169 women, approximately one-half of the students attended part-time. While most of the students come from Waukesha County, the remaining students came from Milwaukee, Washington, Racine, Jefferson, Ozaukee, and other counties.

Facilities: Six buildings of the Waukesha campus are grouped around the campus mall. The Library, Northview, Administration and the Commons are joined together at the northeast corner of the campus mall. The Field House and Southview Hall are located on the south side of the mall. Outdoor tennis courts and an athletic field are located on the east side of University Drive. The Art Annex is located on University Drive, next to the main campus. The campus also operates a field station at Waterville, 10 miles southwest of the campus on Hwy 18.

Special programs: *Academic*—Evening Associate Degree Program, Learning Lab, off-campus courses, parent-child center shared with WCTI, Back-to-School: The First Step—an orientation program for returning adult students, cooperative nursing program with Milwaukee County General School of Nursing, Community Outreach; *Scholarship*—Friends & Alumni Scholarship Program; *Lecture and Arts*—Frontiers of Discovery Lecture series, Wilderness University Lecture Series, Commons Play-ers, Waukesha Civic Theater, Madrigal

Dinners during Christmas and Easter, arts for U Program, Jazz Ensemble, Wind Ensemble, Swing Choir, Madrigal Club; *Extracurricular*—intramural and varsity sports, interest clubs, Returning Adult Students Club, Fallfest and Spring Carnival.

Course offerings

The following courses may be offered at least once during a two-year period. Each semester's offerings will vary because of availability of faculty, student demand, resources and curriculum changes. Be sure to check the Center's class schedule, or timetable, for specific course offerings each term.

Anthropology 100, 102, 105, 200, 202, 299, 302, 308, 314, 330, 400

Art 101, 102, 111, 112, 121, 131, 141, 161, 171, 183, 187, 188, 201, 202, 221, 222, 223, 224, 231, 232, 241, 243, 245, 247, 249, 269, 279

Astronomy 100, 200

Biological Sciences

Bacteriology 101, 299

Botany 100, 130, 160, 231, 250, 260, 291, 299, 400

Physiology 170, 202, 203

Zoology 101, 105, 155, 160, 170, 235, 237, 250, 260, 291, 299, 505, 515, 516

Business & Economics

Business 201, 202, 204, 243

Economics 101, 203, 204, 243

Chemistry 100, 124, 125, 145, 155, 203, 211, 244, 272, 299, 343, 352, 363

Communication Arts 100, 101, 102, 103, 130, 131, 160, 201, 202, 203, 204, 231, 232, 234, 266, 299, 348, 349

Computer Science 110, 210, 211, 291, 299

Education 200, 251

Engineering 100

Graphics 102, 113

Mechanics 201, 202

English & Literature 101, 102, 200, 201, 203, 204, 205, 209, 211, 251, 253, 297, 298, 299

Foreign Language

French 101, 102, 118, 201, 202, 221, 222, 223, 225, 226, 291, 299

German 101, 102, 201, 202, 219, 225, 226, 275, 276, 291, 299

Spanish 101, 102, 201, 202, 225, 226, 275, 277, 291, 299

Geography 101, 110, 115, 121, 123, 124, 125, 130, 299, 341, 342, 347, 348

History 101, 102, 111, 112, 115, 119, 120, 123, 124, 198, 216, 219, 257, 260, 285, 286, 293

Interdisciplinary Studies 105

Lecture (University) Forum 101, 102, 106

Mathematics 102, 105, 110, 113, 117, 124, 130, 211, 212, 221, 222, 223, 299, 320

Meteorology 100

Military Science 101, 251

Music 071, 072, 073, 074, 075, 076, 077, 078, 107, 115, 121, 130, 131, 132, 133, 136, 145, 148, 154, 170, 171, 172, 173, 271, 272, 273, 275, 276, 280, 281, 295, 299

Applied: piano, voice, and instrumental music; consult Music Department

Philosophy 100, 101, 102, 103, 106, 201, 210, 211, 220, 226, 240, 241, 248, 253, 258, 291, 299

Physical Education 001, 002, 006, 009, 012, 016, 017, 018, 019, 027, 028, 032, 033, 035, 041, 042, 043, 044, 048, 058, 059, 062, 102, 104, 108, 121, 122, 201, 203, 205, 206, 207, 208, 209, 210, 212, 213, 215, 216, 291, 299

Physics 107, 110, 141, 142, 201, 202, 205, 291, 299

Political Science 101, 104, 106, 110, 126, 153, 160, 175, 185, 201, 210, 223, 250, 260, 299

Psychology 201, 203, 205, 208, 210, 224, 225, 250, 254, 411, 507, 509, 530, 560, 562

Sociology 101, 120, 125, 130, 131, 134, 170, 291, 299, 357, 530

Administration

Knudten, Mary S. (1981)
Dean
B.A., University of Texas-Austin
M.A., Valparaiso University
Ph.D., University of Chicago

Brown, Janet (1977)
Reading Specialist
B.A., Knox College
M.S., Chicago State University

Buchholz, Ronald (1980)
Coordinator, Student Services
B.S., University of Wisconsin-Stevens Point
M.S., University of Wisconsin-Whitewater

Dehnel, William J.
Business Manager
B.B.A., University of Wisconsin-Madison

Flesia, Faye (1969)
Director of Library and Media Services
B.S., Northland College
M.S., University of Wisconsin-Madison

Hurd, Karen (1978)
Librarian
B.A., Dana College

Jozwiak, Robert (1969)
Program Coordinator, Administration
B.A., Marquette University

Moss, Frederick (1966)
Associate Dean, English
A.B., Olivet College
M.A., Ohio University
Ph.D., University of Wisconsin-Madison

O'Brien Laraine A. (1966)
Program Coordinator, Public Information
B.A., Marquette University

Ormsen, Mary (1975)
Program Coordinator, Student Services
B.S., University of Wisconsin-LaCrosse
M.S., University of Wisconsin-LaCrosse

Reas, Stephen (1977)
Media Specialist
B.A., Indiana Central University
M.S., Indiana University
Ed.S., Indiana University

Thomas, Ronald E. (1982)
Director, Student Services
B.S., Northeast Missouri State
M.S., Southern Illinois-Edwardsville
Ph.D., Southern Illinois-Carbondale

Wroblewski, Arlene (1968)
Program Coordinator, Student Services
B.S., Marquette University
M.Ed., Marquette University
M.B.A., University of Wisconsin-Whitewater

Faculty

Andrews, Susan (1968)
Associate Professor, Psychology
B.S., Miami University, Ohio
Ph.D., University of Chicago

Bermant, Robert (1976)
Associate Professor, Psychology
A.B., Drew University
M.A., University of Kansas
Ph.D., University of Kansas

Bowe, Marion (1961)
Associate Professor, Sociology
B.A., University of Maryland
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Braun, Eugene (1969)
Assistant Professor, Biological Sciences
B.S., Northern Illinois University
M.S., Northern Illinois University

Burger, Josef (1964)
Associate Professor, Political Science
J.U.C., (Law) Charles University, Prague
B.A., Montana State University
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Burgess, Jane K. (1967)
Professor, Sociology
B.S., University of Wisconsin-Stevens Point
M.S., University of Wisconsin-Milwaukee
Ph.D., University of Illinois-Urbana

Calhoun, Robert (1963)
Professor, English
B.A., University of Virginia
M.A., University of Virginia

Cheney, James (1971)
Assistant Professor, Philosophy
B.A., University of California-Berkeley
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Clerkin, John (1966)
Assistant Professor, Spanish
B.A., Beloit College
M.A., University of Wisconsin-Madison

Cooley, Kenneth W. (1968)
Associate Professor, Philosophy
B.A., Phillips University
M.A., Wichita State University

Dernehl, Nancy (1968)
Associate Professor, Biological Sciences
B.A., University of Wisconsin-Milwaukee
M.A., University of Michigan

Dills, Robert M. (1968)
Assistant Professor, Economics
B.A., State University of Iowa
M.S., University of Wisconsin-Madison

Dolphin, Carol A. (1982)
Instructor, Communication Arts
Assistant Professor, Mathematics
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee

Fischer, Carol (1976)
Assistant Professor, Business Administration
B.B.A., University of Wisconsin-Madison
M.B.A., University of Wisconsin-Madison
CPA State of Wisconsin

Foran, Michele L. (1982)
Assistant Professor, Mathematics
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee

Fox, Harvey (1974)
Associate Professor, Mathematics
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Milwaukee

Freund, Dwight (1976)
Associate Professor, Mathematics
A.B., University of California-Berkeley
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Goodrum, R. Gordon (1964)
Associate Professor, History
B.A., University of Kansas
M.A., University of Kansas
Ph.D., University of Wisconsin-Madison

Grotz, Leonard (1969)
Professor, Chemistry
B.S., Northwestern University
Ph.D., University of California-Berkeley

Gutschow, Ronald P. (1969)
Associate Professor, Mathematics
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee
Ph.D., University of Wisconsin-Milwaukee

Hajek, Sharon A. (1977)
Lecturer, English
B.S., University of Dayton
M.A., Ohio University

Holbrook, Jane E. (1971)
Associate Professor, Psychology
B.A., University of Santa Clara
M.A., University of Houston
Ph.D., University of Houston

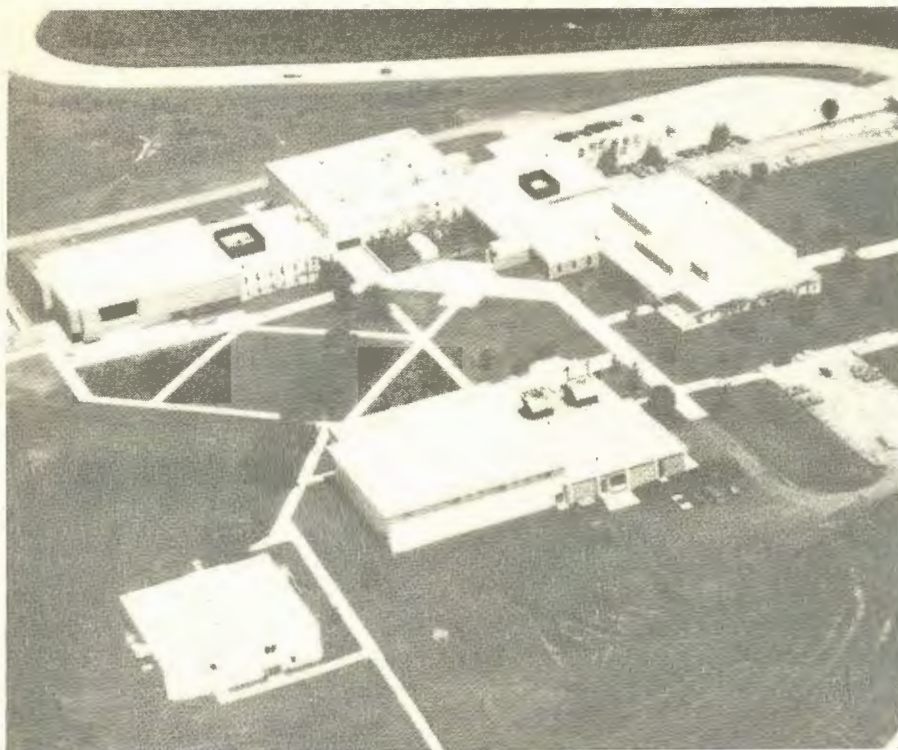
Hundhausen, David F. (1966)
Associate Professor, Communication Arts
B.S., University of Wisconsin-Madison
M.A., University of Iowa

Janis, Martha G. (1982)
Assistant Professor, Business Administration
B.B.A., University of Wisconsin-Milwaukee
M.B.A., University of Wisconsin-Milwaukee
CPA, State of Wisconsin

Johnson, Marlin P. (1967)
Assistant Professor, Biological Sciences
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison

Kaufman, Gladis M. (1982)
Assistant Professor, Anthropology
B.A., Wayne State University
M.A., Wayne State University
Ph.D., Wayne State University

Keller, Carla (1971)
Assistant Professor, Biological Sciences
B.S., University of Wisconsin-Milwaukee
M.S., University of Wisconsin-Milwaukee



Khan, Mohammed Suhaib (1982)
 Assistant Professor, Computer Science
 B.Tech., Indian Institute of Technology, New Delhi
 M.S., Colorado State University

Klingbeil, Jerrold L. (1967)
 Assistant Professor, Physical Education
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison

Knight, John (1969)
 Associate Professor, Philosophy
 B.A., University of Montana
 M.A., Ohio State University

Kotvis, Bonnie A. (1974)
 Lecturer, Chemistry
 B.A., University of Minnesota
 M.A., University of Minnesota

Lange, James A. (1966)
 Associate Professor, German
 B.A., University of Michigan
 M.A., University of Michigan
 Ph.D., University of Wisconsin-Madison

Marking, Geneva (1962)
 Assistant Professor, English
 B.S., University of Wisconsin-LaCrosse
 M.A., University of Wisconsin-Madison

Matthias, Andrea (1968)
 Associate Professor, Music
 B.M., Lawrence University
 M.M., Indiana University

Matthisen, Nancy M. (1968)
 Lecturer, English
 B.A., University of Minnesota
 M.A., University of Minnesota

McAdam, John (1963)
 Associate Professor, Mathematics
 B.S., University of Chicago
 M.S., University of Wisconsin-Madison

McNulty, R. Blakely (1968)
 Assistant Professor, History
 B.A., University of South Carolina
 M.A., University of South Carolina

Moylan, Thomas P. (1968)
 Associate Professor, English
 B.A., St. Mary's College
 M.A., University of Wisconsin-Milwaukee

Muendel, John E. (1974)
 Associate Professor, History
 B.S., Columbia University
 M.A., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Murnan-Smith, Betty (1966)
 Associate Professor, English
 B.A., Butler University
 M.A., State University of Iowa

Orz, Diana (1970)
 Chemistry, Instructor
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Madison

Parker, Alan (1976)
 Associate Professor, Biological Sciences
 B.S., Eastern Illinois University
 M.S., Eastern Illinois University
 Ph.D., University of Illinois

Penkoff, Ronald (1967)
 Professor, Art
 B.F.A., Bowling Green State University
 M.A., Ohio State University

Perez-Pena, Carlos, Jr. (1981)
 Assistant Professor, Engineering
 B.S., University of Wisconsin-Milwaukee
 M.S.C.E., University of Wisconsin-Madison

Pfeifer, Raymond (1968)
 Associate Professor, Geography
 B.S., Ohio University
 Ph.M., University of Wisconsin-Madison

Pierre, Gerald (1975)
 Assistant Professor, English
 B.A., St. John's University
 M.A., University of Minnesota
 Ph.D., University of Minnesota

Rabby, John W. (1964)
 Associate Professor, English
 B.S., Spring Hill College
 M.A., Marquette University

Rozga, Therese (1968)
 Associate Professor, Communication Arts
 B.S., John Carroll University
 M.A., Marquette University

Ryan, Mary (1968)
 Assistant Professor, Physical Education
 B.S., University of Illinois
 M.S., University of Wisconsin-Madison

Sadler, Walter (1962)
 Associate Professor, Mathematics
 B.A., Alfred University
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Schwanke, Richard (1970)
 Professor, Art
 B.S., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Milwaukee
 M.F.A., University of Wisconsin-Madison

Selle, Stephanie (1974)
 Assistant Professor, Art
 B.F.A., University of Wisconsin-Milwaukee
 M.S., University of Wisconsin-Milwaukee
 M.F.A., University of Wisconsin-Milwaukee

Shah, Ghulam (1970)
 Professor, Mathematics
 B.A., Kashmir University
 M.A., Aligarh University
 LL.B., Aligarh University
 Ph.D., University of Wisconsin-Milwaukee

Skryja, David (1976)
 Associate Professor, Biological Sciences
 B.A., University of Nebraska at Omaha
 M.S., University of Wyoming
 Ph.D., Arizona State University

Splies, Robert G. (1967)
 Professor, Chemistry
 B.S., University of Wisconsin-Madison
 M.S., University of Wisconsin-Madison
 Ph.D., University of Wisconsin-Madison

Stimpert, Donald (1967)
 Associate Professor, Music
 B.S., Kent State University
 M.M., Indiana University

Stonitsch, J. Peter (1976)

Assistant Professor, Mathematics
B.S., University of Notre Dame
M.S., University of Notre Dame
Ph.D., University of Notre Dame

Tien, Hung-Mao (1968)

Professor, Political Science
B.A., Tunghai University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Toenes, Sara (1966)

Associate Professor, French
B.A., University of North Carolina-
Greensboro

M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Udovich, Gary (1976)

Assistant Professor, Chemistry
B.S., Carroll College
Ph.D., University of Wyoming

Weast, Donald (1976)

Associate Professor, Sociology
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Werner, Steven E. (1974)

Assistant Professor, History
B.A., Lawrence University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Whitney, John C. (1966)

Associate Professor, Music
B.S., University of Wisconsin-Stevens Point
M.M.E., Vandercook College

Wickliffe, Morris (1976)

Assistant Professor, Physics
B.S., Arkansas Polytechnic College
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Wrigley, Victor (1966)

Associate Professor, Physics
B.A., Ripon College
B.D., Theological Seminary-Minnesota
M.S., University of Wisconsin-Madison

Young, Mary Ellen (1963)

Professor, Art
B.F.A., University of Illinois
M.A., University of Illinois

Zessin, Bruce D. (1969)

Associate Professor, English
B.A., University of California-Los Angeles
M.S., University of Wisconsin-Madison
Ph.D., University of California-Los Angeles

Zielinski, Daniel (1959)

Professor, Geography
B.S., University of Wisconsin-Madison
M.S., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison

Zweifel, Philip (1976)

Assistant Professor, English
B.A., St. John's University
M.A., University of Wisconsin-Madison
Ph.D., University of Wisconsin-Madison



Getting Started



Admissions policy

Anyone who might benefit from college study will be considered for admission at a Center.

The University of Wisconsin Centers provides educational opportunities for a full range of students. Each applicant's special needs are considered. Various Centers offer a number of special programs for students with outstanding academic potential. In the admissions process, special consideration is given to applicants who have been out of school for two or more years, to service veterans with at least 180 days of active duty, and to students who have been disadvantaged as a result of substandard education, family income, or ethnic background.

Students on each campus include recent high school graduates, working adults, and senior citizens. Some are in college to earn degrees, some to better their career prospects, and others to enrich their lives.

How to apply

In order to be considered for admission, you must submit a University of Wisconsin application form. You can obtain this application form from your high school guidance office or from the Center. Directions for completing the form and where it should be sent are on the application.

There is a \$10 application fee which should be submitted with the application. This fee applies to new freshmen and students transferring from a school which is not part of the University of Wisconsin. Special students do not pay the application fee until such time as they become degree candidates or matriculate.

Applications are accepted after October 1 for the following fall, spring semester or summer term.

High school students are encouraged to apply early in their senior year. If you apply early you will have an advantage in obtaining academic counseling, financial aids, and your preferred schedule of courses.

Freshmen

If you enter a Center with a degree as your goal, you must meet the following basic admission requirements:

1. Graduation from a recognized high school or possession of an equivalent diploma such as the G.E.D.
2. Completion of at least nine high school credits in any of the following areas: English, speech, foreign language, natural science, social science and mathematics. It is recommended but not required that students present 12 credits from those areas, with at least 3 from English and 2 from mathematics other than general math.

A high school credit represents roughly five class periods per week in one field of study for a school year of 36 weeks. If you are admitted on the basis of an equivalency certificate or diploma, or a G.E.D. examination, you are considered to have fulfilled these minimum requirements.

An admissions test is not required. However, you may be asked to take placement tests (without charge) in order to aid program advisors.

If you do not meet the requirements listed above, you may appeal to the Office of Student Services for special consideration.

Admission requirements for out-of-state students are the same as those for resident students.

After notification of admittance, but before enrollment in classes, if you rank in the lower 25 percent of your high school graduating class, you must make an appointment to seek the advice of and meet with a counselor from the Office of Student Services.

Students who present a G.E.D. or other equivalent diploma also may be asked to make an appointment with a counselor.

During the interview with a counselor, students whose high school rank or course work indicates that it may be difficult to attain satisfactory grades in college may be allowed to register on

condition that they adhere to one or more of the following:

1. Placement tests in English and mathematics, or an equivalent evaluation, completed before registration.
2. Course load and selection determined mutually by the counselor and the student. Some students may be restricted to a maximum of 12 credits during a semester or a proportionate amount during a summer session.
3. Regular meetings with a counselor throughout the semester or summer session.
4. Enrollment in appropriate basic skills courses and/or tutoring as available through the Center. Students may be advised to register in basic skills courses or other appropriate course work during the summer session. Students admitted with this condition must receive passing grades in any basic skills courses in which they are registered before being allowed to continue in the Center.

Students enrolled under these circumstances will continue under the outlined conditions until they have completed at least 12 degree credits with average grades of "C" or better. Students admitted under these conditions are subject to the regular probation/suspension actions. Each such student will be given a copy of the conditions of registration as agreed upon by the student and the counselor.

Students who do not wish to register under such conditions may appeal for an exception to the appropriate committee at the Center.

Counselors may make exceptions for students whose high school background or activities since high school graduation indicate that this policy is not appropriate.

Transfer students

If you have attended college elsewhere before applying for admission to a Center, complete the same application blank that new freshmen use. You must submit a high school record and transcripts from all colleges you

have attended. If you had a "C" average each semester at your previous college(s), you will be admitted; if you had less than a "C" average, the Center's academic regulations (probation, drop standards) will be used to determine your admissibility and probation status, if any.

You must submit college transcripts from all colleges attended whether or not you wish to claim credit for the work. If you fail to do so, you may be dismissed from the Center.

Transfer students whose previous college transcripts show less than a "C" average, especially in the last semester of attendance, may be asked to meet the conditions outlined above for new freshmen who rank in the lower 25 percent of their high school class.

If you are a transfer student applying for financial aid you should refer to the financial aid section of this catalog for application procedures. If you have previously received financial aid while attending another institution you must file a Transfer Student Financial Aid Record. These forms are available in any campus financial aid office.

Returning students

Students who have not attended a Center for one or more semesters must file an application for admission form, and submit transcripts of any college work attempted since their last registration in a Center. Students who were dropped or suspended at the close of their last semester of registration at the Center must secure permission to reenter through the Office of Student Services.

Foreign students

The admissions requirements given in this catalog do not apply to students who are not residents of the United States. Admission of students from foreign countries is considered on the basis of scholastic ability as demonstrated on school records and certificates, and the ability to use and understand the English language. Applicants are expected to provide proof of their ability to pay all of the expenses incurred while a student.

All enrolled foreign students may be required to carry health insurance or

show comparable coverage for medical expenses.

Special students

High school students: High school students, particularly seniors, who wish to enroll in courses prior to graduation may do so for credit or audit. They must, however, file applications for admission on the standard university forms. They must have the recommendation of their high school principal. Credits and grades earned by the high school student will be entered upon the official records of the campus and will be fully-accredited, transferable UW credits for the student.

"Special students:" Anyone may enroll as a "special student" for up to six credits of course work without submitting previous educational records. "Special students" will be asked to submit educational records after having completed six hours of course work before they will be allowed to enroll in additional courses. Exceptions may be made for "special students" who are not seeking a degree. Students who have not previously filed the standard University of Wisconsin application form will be asked to do so at this time. (Some Centers use a form which combines the application blank and a registration form for Special Students.)

Auditors: The UW Centers encourage adults to audit courses. All students who wish to audit a class are requested to obtain the approval of the instructor who teaches the course. Normally, such approval will be granted unless admission of auditors into the class will result in increased classroom requirements or increased costs for instruction. Residents of Wisconsin who are at least 62 years-old may audit courses without charge provided there are no additional laboratory or increased instructional costs resulting from implementation of this policy.

Adults: The Centers encourage adults to apply for admission, whether you wish to work for a degree, audit courses, or simply take a few courses. In 1983, 33 percent of the students in the institution were 25 or older. The percentage of adults varies from one

Center to another, but all Centers have adults attending classes.

Credit by examination

Students may establish credit for some specific courses by taking an examination. The specific courses are decided upon by the department and a standard examination will be used for this purpose. Any credits earned in such a manner will be recorded on the student's transcript as "credit by examination" and no grade will be assigned for such a course. If a student attempts the examination for a course and fails the examination, this attempt will not be shown on the student's transcript. Any questions about the possibility of earning credits by examination may be directed to the Office of Student Services.

Several departments have specific policies regarding credit by examination. Students interested in establishing credit for courses other than those listed below should consult an instructor in the department or the Student Services Office. The policies in effect in the spring of 1981 were:

Art Department: Students may submit portfolios to establish credit in studio-type courses.

Biology Department: A student may take a challenge examination in any course offered by the Biology Department. Any student interested in establishing credit in this way should contact a faculty member in the Biology Department. The examination may be requested at any time during the semester. If the challenge examination is passed, credit will be granted to equal the number of credits for which the course is offered. For example, if a student passes the examination in Botany 130, the student will be granted 5 credits for Botany 130.

A student may receive 5 credits equivalent to BOT/ZOO 151, if a score of 4 or 5 is received on the Biology Exam of the Advanced Placement Program of the College Board.

Students who have earned a grade of 5, 6, or 7 on the Higher Level Biology Examination of the International

Baccalaureate program will be granted 5 credits equivalent to Botany/Zoology 151. Students who earn a grade of 4 on the IB examination will not be granted credit but may receive advanced placement by taking a departmental attainment examination.

Business Department: A student may be granted 4 credits in Business 201 by scoring at or above the 50th percentile on the CLEP Subject Examination in Introductory Accounting.

English Department: Students are allowed to earn credit by examination in the following courses.

In English 102, by scoring at or above the 50th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in College Composition, *and* by submission of a satisfactory documented essay of at least four pages.

In English 103, by earning a score of 6 or 7 on the Higher Level International Baccalaureate examination in Language A (English 1B).

In English 200, there are three ways to receive credit for this course:

—by scoring at or above the 70th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in Analysis and Interpretation of Literature.

—by scoring at least 4 on the Advanced Placement College Board Examination in English: Composition and Literature.)

—by earning a score of 5, 6 or 7 on the Higher Level International Baccalaureate examination.

In English 201, by scoring at or above the 60th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in College Composition *and* by the submission of a satisfactory documented paper of 6-8 pages.

In English 205, by scoring at or above the 50th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C

or better) on the 90-minute essay section of the CLEP Subject Examination in English Literature.

In English 211, by scoring at or above the 50th percentile on the 90-minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90-minute essay section of the CLEP Subject Examination in American Literature.

In English 227, by scoring at or above the 50th percentile on the 90 minute multiple-choice objective section *and* by earning a satisfactory grade (C or better) on the 90 minute essay section of the ACT/PEP Examination in Shakespeare.

Foreign Language Department: (French, German, Spanish.) Students may receive credit for the elementary and intermediate courses (101, 102, 201, 202) lower than the first course they complete in the Center System, if they complete the course in the Center System with a grade of B or better. (This policy is strictly enforced, therefore a B- is not acceptable.) Students may earn a maximum of 16 credits in this manner. Students who wish to establish credit by this method must contact the instructor at the beginning of the semester.

Students may also earn credit in French, Spanish, or German by taking the appropriate CLEP exam and placing in the 90th percentile or above. An interview in the language with a Center instructor *is also required* before the credit may be granted. A maximum of 8 credits for the 101 and 102 courses may be earned in this manner.

Students who wish to establish credit for other courses in foreign language should contact the appropriate foreign language instructor at the Center.

Geography Department: A student may be granted 3 credits for Geography 110 by earning a score of 5, 6, or 7 on the geography examination of the Higher Level International Baccalaureate program.

History Department: A student may be granted 6 credits in History 101-102 (United States History) by earning a score of 4 or 5 on the Advanced Placement College Board Examination in U.S. History. Also, a student may earn 6 credits in Modern History for a score of 5,

6, or 7 on the Higher Level International Baccalaureate examination.

Mathematics Department: A student may be granted credit for Mathematics 221 by passing a departmental examination and then completing Mathematics 222 with a grade of C or better. (A grade of C- is not acceptable.) Interested students should contact an instructor in mathematics.

Students who have taken the Advanced Placement Examination in Calculus offered by the College Board may receive credits for calculus by:

1. Students who take the Advanced Placement Calculus AB exam will receive 5 credits for *Math 221* if they receive a score of 3, 4, or 5.
2. Students who take the Advanced Placement Calculus BC exam will receive 10 credits for *Math 221* and *222* if they receive a score of 3, 4, or 5 on the exam. Students who receive a score of 2 on the BC exam will be awarded 5 credits for *Math 221*.

College Level Examination Program

Students may earn degree credits as a result of taking the College Level Examination Program (CLEP) General Examinations. These tests are offered by the College Entrance Examination Board. This examination must be taken prior to the completion of a student's first 16 college credits. Credit will be awarded as indicated below when a student scores at or above the 50th percentile on established national sophomore CLEP norms.

1. A maximum of six credits for the Humanities section of the general examination.
2. A maximum of six credits for the Social Science section of the general examination.
3. A maximum of six credits for the Natural Science section of the general examination. This does not satisfy the laboratory science requirement for the associate degree.

No credit will be awarded for the English or Mathematics sections of the CLEP general examination. Also, no

credit will be awarded in an area in which a college course was completed prior to the taking of the examination. Any credits earned by the CLEP general examination will be recorded as such on the student's transcript.

Resident status for tuition purposes

The residency regulations for the University of Wisconsin System are in the Wisconsin Statutes. You are classified as a resident or non-resident at the time of admission to the University of Wisconsin.

If you do not qualify as a resident of Wisconsin, you must pay tuition in addition to the fees charged to students who are Wisconsin residents. (For tuition purposes, residency differs from conditions established for voting, paying taxes, etc.)

Minnesota residents may qualify for in-state tuition by applying to the Minnesota Higher Education Coordinating Commission, Suite 400, Capitol Square, 550 Cedar St., St. Paul, Minn. 55101.

Students who are classified as non-resident for tuition purposes and feel that classification is not correct should contact the Office of Student Services.

Registration

Registration is the process of signing-up for courses each semester. An advisor will help you in your selection of appropriate courses to fit your individual course of study.

Registration may be held in the months preceding the actual beginning of classes; however, each Center makes provision for registration in the week before the start of classes. Specific information regarding the time, places and dates of registration is available from the campus Office of Student Services.

If you complete a registration form, you are considered to have registered whether or not you have paid fees and tuition or attended any classes.

Once you are registered and wish to withdraw, you must complete a withdrawal form as explained on page

If you fail to officially withdraw and also fail to pay your fees, you will be adminis-

tratively withdrawn from the University. However, your obligation for payment of fees will continue and may bar you from registration in subsequent semesters. This applies whether or not you attended any classes. The amount of fees owed will be determined by the fee policy established by the Regents of the University of Wisconsin.

Registration hold policy

If you owe the University a fine, money, materials, or are delinquent in the payment of a loan which was obtained through the University Financial Aid Office a "hold" may be placed on your record. A "hold" on your record may prohibit you from registering for a subsequent semester and will prevent the issuance of a transcript.

Concurrent registration

You may enroll in courses at more than one Center campus, or at a Center and a four-year campus of the University of Wisconsin, or may take a course through University Extension.

You may take a course by independent study (correspondence) through University Extension if the course is not available at the Center and if the course is listed in the Extension catalog as a University Credit course, or if the course is high school algebra or geometry. If you are a full-time student, you may take such a course at no additional cost except for fees for text materials purchased through Extension and a small registration fee (currently \$2.00). You should contact the Office of Student Services for a list of such courses and the appropriate forms. Registration for such a course should take place prior to or during the first week of classes.

If you are enrolled at more than one UW institution, you may combine credits taken in order to determine your full-time status and fee and tuition assessment. It is your responsibility to present evidence of fees paid, and courses and credits being taken. If full-time status is achieved at the first institution, no additional fees will

be assessed by the second institution. When full-time status is not achieved at the first institution, the second will charge the per-credit rate until the full-time rate is reached. At no time will the full-time rate be less than the lowest nor more than the highest full-time rate of the institutions involved. Credits taken through UW-Extension may be combined with the Center credits when determining fee and tuition assessments.

Costs*

Tuition and fees are set by the UW Board of Regents. For residents of Wisconsin, the 1982-83 fees ranged from \$455 to \$478 per semester for 12 or more credits and \$1620-\$1644 for non-residents. Per credit fees for students carrying 11 or less credits ranged from \$38-\$40 for residents and from \$135-\$137 for non-residents. You should contact your Office of Student Services for specific information.

*Costs are subject to change without notice.

Tuition and fees Late payment

All tuition and fees must be paid at the time of registration or no later than the end of the first week of classes. No student shall be issued a transcript (certified or not) until all accounts receivable have been paid.

If fees are paid after the first week of classes and a fee deferral has not been granted, a mandatory assessment for administrative services will be charged in addition to regular fees. The assessment rate follows.

Full-time students: A \$20 assessment for administrative services is charged when tuition and fees are paid during the second week of classes; \$30 is charged during the third and fourth weeks. If the tuition and fees are not paid by the fourth week of classes and the student has not obtained a payment

deferral, a \$30 assessment for administrative services will be charged in addition to the tuition and fees owed and registration will be cancelled.

Part-time students: The assessment for administrative services will be prorated for part-time students according to the following schedule:

	Payment in 2nd week of classes	3rd & 4th week
1-4 cr.	\$ 5.00	\$ 7.00
5-7 cr.	\$10.00	\$14.00
8-11 cr.	\$15.00	\$21.00

If tuition and fees are not paid by the fourth week of classes and the student has not obtained a payment deferral, the maximum assessment for administrative services will be charged in addition to the tuition and fees owed and registration will be cancelled.

Dishonored checks: A \$5.00 charge will be assessed on any check which is not honored by the financial institution from which it was drawn.

Official transcript: There is a \$2.00 charge for each transcript.

Refunds for withdrawals

Students must withdraw through the Office of Student Services at their U.W. Center campus to establish their official date of withdrawal. That date will be used to calculate the amount of any fees to be assessed or any repayments of financial aid or refunds which are to be made.

Fees and tuition will be refunded according to the following schedule:

Before or during first Week of Classes	100% refund
Second Week of Classes	80% refund
Third Week of Classes	60% refund
Fourth Week of Classes	40% refund
Thereafter	No Refund

If fees are not paid prior to a withdrawal, cancellation or drop of credits, the payment schedule would be as follows:

First Week of Classes	No Charge
Second Week of Classes	\$20 plus 20% of original fee
Third Week of Classes	\$30 plus 40% of original fee
Fourth Week of Classes	\$30 plus 60% of original fee
Thereafter	\$30 plus full fee





Financial aid

The institution operates a comprehensive financial aids program to assist students whose personal and family resources are not sufficient to meet the cost of attending college. Counseling is also available at each Center to help students manage their money and to provide information on all sources of financial assistance.

Eligibility for aid

In order to be considered for financial aid, a student must:

1. be a United States citizen or have permanent residence status. (Foreign students are not eligible).
2. be enrolled for 12 credits in order to be considered for all types of financial aids. Students carrying less than 12 credits may also be eligible for aid. However, most of the financial aid programs are need-based, and students enrolled for less than full time generally show less need than full-time students due to part-time work earnings, etc. Therefore, some part-time students may not qualify for financial aid based on need;

3. have demonstrated financial need (with the possible exception of applications for a Guaranteed Student Loan);
4. not be in default on any educational loan or owe any previously incurred financial aid repayments;
5. must maintain satisfactory academic progress according to academic requirements published elsewhere in this catalog.
6. carry a minimum of 6 credits per semester.

Students who already have baccalaureate degrees cannot be considered for grant funds but will be considered for loan or work programs.

How and when to apply for financial aid

Incoming freshmen

- ☐ Submit a University of Wisconsin System Application for Admission Form and indicate in the appropriate section that you want to apply for financial aid. This form is available at your high school guidance office and at all University of Wisconsin campuses. *It should be filed after October 1 and before March 1 if at all possible.*

(Continue the checklist below under "All Students")

Continuing students, transfer students, reentry students and self-supporting students

- ☐ File the UW Centers Financial Aids Application. *This should be filed after January 1 and before March 1 if at all possible.*
- ☐ If you are a transfer student, file a financial aid transcript from each postsecondary educational institution you have attended. These transcripts *must be on file with the Financial Aid Office before you receive your aid.* The forms are available at all Center Financial Aid Offices.

(Continue the checklist below under "All Students")

All students

- ☐ File a Financial Aid Form (FAF). Forms are available in the Office of Student Services. Be sure to indicate in the appropriate place on the FAF that you wish to be considered for the Pell Grant (formerly known as the Basic Grant). The Office of Education will then send you a Student Aid Report (SAR) indicating eligibility for the Pell Grant. The FAF should be filed as soon as possible after January 1 for the following academic year (September through May).
- ☐ Submit the SAR to the Office of Financial Aids even if it indicates that you are ineligible for a Pell (Basic) Grant. Consideration for other funds will not be made until the SAR is turned in.

Students must make application for financial aid each year. Awards do not transfer to other campuses except other U.W. Centers nor does eligibility carry over from year to year.

How awards are calculated

All awards (except for the Guaranteed Student Loan program) made by the institution's Financial Aid Office are based on need. Need is defined as the difference between the total academic year cost of attendance and the amount that a student and his/her family can reasonably be expected to contribute toward that cost. The resources considered to be available to a student are calculated using the information provided on the FAF.

For a detailed explanation of this methodology see **Meeting College Costs**, a pamphlet published by the College

Scholarship Service and available at high school guidance offices.

In determining need, the total amount of resources available is subtracted from the applicable budget. These budgets are uniform to assure a fair and reasonable distribution of funds. With sufficient funding, the total award of financial aid will equal this calculated need. Individual expenses may vary, but the awards for the 1983-84 school year will be based on budgets close to the estimates in Table A.

TABLE A

Dependent Student Budgets	Living with parents	Living away from parents
Tuition Estimates (Non-residents, see below)	\$ 980	\$ 980
Books	240	240
Transportation	550	320
Room & Board	1020	2420
Miscellaneous	840	840
Total Budget	\$3630	\$4800

Non-residents of Wisconsin should add approximately \$2400 to the tuition figures.

Budgets for 1984-85 can be estimated by multiplying the total figures in Table A by 1.06.

Sample Case

Four member family with one parent working.		
1982 Total Income	\$20,000	
Total Equity in Assets	20,000	
Parents' Expected Contribution		\$ 690.00
Student's Expected Contribution		+ 700.00 (for freshmen)
Family Contribution		\$1390.00

	Student living with parents	Student living away from parents
Budget (From Table A)	\$ 3630	\$ 4800
Expected Family Contribution	- 1390	- 1390
Calculated Need	\$ 2240	\$ 3410

Every effort is made to offer students sufficient aid to cover calculated need. Exceptions include extremely high need case which typically involve self-supporting students, or cases where students have exhausted eligibility in certain programs of aid.

Students with need may be offered a combination of grants (gift aid), loans and work-study to cover the need. Wherever possible, students are offered a choice between work-study and loans. The aid packaging policies are established to give each need student the best combination of available aids.

The following sample awards are simply estimates of likely 1983-84 awards since funding levels vary from year to year.

	Student living with parents	Student living away from parents
Budget (From Table A)	\$ 3630	\$ 4800
Family Contribution (From Sample Case)	- 1390	- 1390
Need (From Sample Case)	\$ 2240	\$ 3450
Award:		
Grant Aid:	\$ 1440	\$ 1810
Loan or Work:	+ 800	+ 1800
Total Award:	\$ 2240	\$ 3410

While it is obvious that a student living away from his/her parents' home receives more total aid money, students are cautioned against moving out simply to receive more money. Expenses associated with living away from parents' home are much higher than those incurred in living at home with parents due to housing costs and the out-of-pocket portion of food and miscellaneous expenses. Also, the budget which results in more total aid for students living away from parents has a higher level of loan which must be repaid, and/or work-study money which must be earned.

Sources of financial aid

Grants are awards based solely on financial need and require no repayment. Pell Grants (formerly known as Basic Educational Opportunity Grants) provide federal awards ranging from \$200 to \$1900 annually, depending on need and federal funding allocations.

Supplemental Education Opportunity Grants (SEOG) range from \$200 to \$2000 yearly for students with high financial need.

Wisconsin Higher Education Grants (WHEG) for Wisconsin residents range from \$100 to \$1800 depending on need.

Scholarships are non-repayable funds from community and private sources. Interested students should contact their high school counselors and Student Services Office to determine if they are eligible to receive any of these funds.

Loans are low-interest awards that must be repaid after graduation or discontinuation of study.

National Direct Student Loans (NDSL), provide federal funds ranging from \$100 to \$3000 annually for undergraduates, with a maximum of \$3000 for the first two years of study. Students must be registered on at least a one-half time basis. No interest accrues until the repayment cycle begins six months after a student graduates, leaves school or drops below half-time status. The interest rate during the repayment period is five percent per annum simple interest. Postponement of repayment and loan cancellation are restricted to very limited types of employment following graduation.

The following chart depicts some examples of repayment and corresponding interest charges. Principal amounts up to a maximum of \$1800 borrowed may be repaid at the rate of one-tenth of the principal per year for the ten-year period of repayment or at the rate of \$45 per quarter plus interest at five percent per annum. Quarterly payments decrease as the unpaid balance is reduced due to the reduction in annual interest accruing each year.

	THE PRINCIPAL AMOUNT BORROWED		
	\$1000	\$1800	\$3000
Annual Repayment Amount Range	\$136-104	\$252-187	\$420-324
Number of Quarterly Payments	40 10 years	40 10 years	40 10 years
Total Interest Paid	\$220	\$396	\$660
Total Amount Repaid	\$1220	\$2196	\$3660

Guaranteed Student Loan (GSL) is a federal loan through local banks and lending agencies. This program is

not based on need and is designed to supplement other aid programs or to provide a source of funds to students ineligible for need-based aids. Dependent undergraduate students may borrow up to \$2500 annually while independent students may borrow up to \$3000 per year to a maximum of \$12,500 and \$15,000 respectively.

Interest for new borrowers at the rate of nine percent per annum does not accrue and repayment does not begin until the student ceases to be in school on at least a one-half time basis. Wisconsin residents who are refused a loan through a private lender should contact their campus aid officer. The State will act as lender when Wisconsin residents cannot locate a private lender.

Students who wish to receive any of the need based funds listed should refrain from applying for this program until their FAF or comparable form is processed, and they receive notification of their eligibility for aid from other programs. Applying for the GSL first could disqualify a student from receiving grant aid.

Employment

Work-Study. This federal program offers part-time employment to students who demonstrate financial need. Students may be employed either on campus or by off-campus non-profit agencies. It is the student's responsibility to contact the office of student services to secure a job and to earn the amount of the work-study award offered.

Regular Student Payroll. There are some jobs available on campus. Contact the Student Services Office for details about jobs which may interest you. These jobs may or may not be given out on the basis of need, depending on the types of jobs and funds available.

Other Aid programs

Indian Aid. The Bureau of Indian Affairs and Indian Assistance Grants from the State of Wisconsin provide grants to Native American students who are at least one-quarter blood Indian and who demonstrate need. Applications are available from high school counselors or the Office of Student Services.

Vocational Rehabilitation. Students with physical or mental handicaps may be eligible for student benefits from the Department of Vocational Rehabilitation. This aid is entirely in the form of grants. Contact your local office of the Department of Vocational Rehabilitation for more information.

Veterans' Benefits. The University of Wisconsin is an approved institution for training veterans under the provisions of all student assistance programs for veterans. For more information, contact the Veterans' Administration regional office in Milwaukee or the campus Student Services Office.

Aid to Families with Dependent Children. (AFDC) You should contact your County Social Services Office if you are

divorced or separated and have dependent children or your spouse is not providing support. If you are a student under age 18 and your parents meet the above criteria you should also contact the Social Services Office for more information.

Repayment of Financial Aid

Financial Aid recipients who withdraw from the University must repay any cash awards (loans and/or grants) they have received for the semester in the following manner:

1. From the original cash award, e.g., loan and/or grant money received through the Office of Student Financial Aids, the following will be deducted:
 - a. Fees and tuition (any fee/tuition refund will be returned directly to the appropriate aid fund.)
 - b. Non-institutional costs incurred by the student up to and including the week of withdrawal. (Books, transportation, room and board)
2. The student must repay the remaining balance. Students must repay the required amount during the semester in which they withdraw, or make other arrangements that are satisfactory to the office of Student Financial Aids. Students failing to do either of the above will have a "hold" placed on their records and will not be eligible for future aid until repayment has been made.

Students who are planning to withdraw and have received financial aid should discuss the repayment of their aid with the Financial Aid Officer at their Center.

Veterans obligations

In compliance with the regulations of the Veterans Administration, the U.W. Centers has adopted the following procedures to notify the VA of the academic progress of any student or eligible person(s) receiving benefits from the G.I. Bill:

The Center will notify the VA within 30 days after the Center is aware that a student's attendance status has changed. The student is obligated to notify the Student Services Office at the Center of any change in program which will affect the student's G.I. Bill benefits. For students who fail to notify the Student Services Office that they dropped a course or courses, and the end-of-semester grade report indicates the possibility of non-attendance, the Center will check with each instructor concerned to ascertain the last day of attendance. In the event that an instructor's records do not provide a last date of attendance, the Center will request a statement from the veteran or eligible person(s). End-of-semester grade reports will be checked if there is more than one grade of Incomplete, FN (failure of non-attendance), or Fail. Audited courses are not used in determining full-time attendance for Veterans Administration. The VA will be notified of all withdrawals or changes of program which affect the veteran's benefits.

The VA will also be notified of the academic progress of each veteran or eligible person(s) who has less than an overall or cumulative "C" average at the end of the semester if the student was on probation prior to that semester. If a veteran or eligible person(s) has signed up for a course on a Credit/No credit basis, the actual grade given by the instructor will be used to compute the grade point average to be reported to the VA. VA regulations, in some cases do not allow students to repeat courses and receive benefits based on those credits being used to determine eligibility for full benefits. The Center will notify the VA if a veteran receives grades of failure in all courses taken during a semester.

The above procedures will be followed for all veterans or eligible person(s). It is possible for a student to be allowed to continue at the Center even though the student's academic progress results in a termination of VA benefits.

Degree Requirements and Transfer Procedures



Associate Degree

Each UW Center offers an Associate of Science Degree or an Associate of Arts Degree after completion of a prescribed curriculum. The degrees are conferred by authority of the University of Wisconsin Board of Regents.

Requirements published in this catalog differ from those published prior to 1981. Students who entered a UW Center in fall 1981 or thereafter will be required to meet the requirements in this catalog. Students who entered prior to fall 1981 may fulfill either these requirements or those outlined in the 1979-1981 catalog.

General requirements for the Associate of Arts and Associate of Science Degree:

1. A minimum of 60 credits is required.
2. At least 15 of these 60 credits must be completed at a Center campus.
3. The student must have a cumulative grade point average of 2.0 achieved in the institution, and 2.0 overall in those credits applied by the student toward the degree.
4. The student must be enrolled at the Center awarding the degree during the term requirements are completed.

A student may elect to receive either the Associate in Arts or the in Science degree. There is no provision for a student to receive both degrees. (This policy is effective for students entering a UW Center for Summer Session 1983 and thereafter.)

Courses which are taken on a Pass/Fail basis may not be used to satisfy the specific degree requirements in English, Mathematics and Laboratory Science, Social Sciences and Humanities. They may be used as elective credit to reach the total of 60 credits.

All credits earned in the Center or accepted by the Center as earned at other colleges may be credited toward the degree. Credits earned by examination may also be credited toward the degree.



Associate of Arts Degree course requirements and planning guide:

Requirements	Done	To Do
1. English. 3 Three credits in English Composition at the English 102 level or above. (The prerequisite for Eng. 102 is Eng. 101, or sufficiently high placement test scores, or consent of the campus English faculty based on demonstrated writing ability. Students who are required to take Eng. 101 before Eng. 102 may count the credits in Eng. 101 as elective credits.)		
2. Mathematics and Laboratory Science. A minimum of eight credits. A minimum of one course for credit in each. All mathematics courses numbered 100 or higher count toward the mathematics requirement. The mathematics requirement is waived for those students qualified to enter first semester calculus. If mathematics is waived, a minimum of eight credits is still required in the mathematics and laboratory science areas.		
3. Social Sciences. A minimum of 9 credits in courses from at least two disciplines.		
4. Humanities. A minimum of 12 credits in courses from at least two disciplines. Three of these credits must be in literature. (Courses in the catalog carrying the designation HU/LI) will count toward the satisfaction of the literature requirement.)		
5. Electives. Meeting the minimum requirements in items 1-4 above, totals 32 credits. The remaining credits (to the degree total of 60) may be selected from additional courses in mathematics, laboratory science, social sciences, and humanities and/or courses listed in the elective area.		

Course designation for Associate Degree purposes are those of the UW Centers and do not necessarily coincide with designations at four-year campuses. Students should contact the Center Office of Student Services to determine how a particular course will be treated in satisfying requirements at another college or university.

Elective courses may be selected to satisfy foundation requirements for an intended major or pre-professional field. Consult with an advisor.

Associate of Science Degree course requirements and planning guide:

Requirements	Done	To Do
1. English. 3 credits in English Composition at the English 102 level or above. (The prerequisite for Eng. 102 is Eng. 101, or sufficiently high placement test scores, or consent of the campus English faculty based on demonstrated writing ability. Students who are required to take Eng. 101 before Eng. 102 may count the credits earned in Eng. 101 as elective credits.)		
2. Mathematics and Laboratory Science. A minimum of 14 credits. A minimum of one course for credit in each. All mathematics courses numbered 105 or higher count toward the mathematics requirement. The mathematics requirement is waived for those students qualified to enter first semester calculus. If mathematics is waived, 14 credits minimum is still required in the mathematics and laboratory science areas.		
3. Social Sciences. A minimum of 6 credits.		
4. Humanities. Minimum of 9 credits, 3 of which must be in literature. (Courses carrying the designation HU/LI will be counted toward the satisfaction of the literature requirement.)		
5. Electives. Meeting the minimum requirements in items 1-4, above, total 32 credits. The remaining credits (to the degree total of 60) may be selected from additional courses in mathematics, laboratory science, social sciences, and humanities, and/or courses listed in the elective area.		

Course designations for Associate Degree purposes are those of the UW Centers and does not necessarily coincide with designations at four-year campuses. Students should contact the Center Office of Student Services to determine how a particular course will be treated in satisfying requirements at another college or university.

Elective courses may be selected to satisfy foundation requirements for an intended major or pre-professional field. Consult with an advisor.

Center System Associate Degree course designations

In order to fulfill requirements for the Associate Degree, you must take courses in the areas of English, Mathematics, Laboratory Sciences, Social Sciences, Humanities and Electives and/or Service Courses.

The following list indicates which courses in each academic department are social sciences, humanities, etc. For instance, if you are looking for a course that meets the humanities requirement, look for the word "Humanities" following the department heading. The numbers of that line are the course numbers. The corresponding course titles and descriptions are found in this catalog beginning on page

DEPARTMENTS

ANTHROPOLOGY

Social Sciences: 100, 102, 105 (3 cr.), 200, 204, 222, 291, 293, 299, 304.3, 322, 325, 330, 341, 343, 349, 351, 370, 400, 440, 450, 470

Lab Sciences: 105 (4 cr.), 106, 303, 304, 311, 370

Humanities: 301

ART

Humanities: 171, 181, 183, 185, 187, 188

Electives and/or Service Courses: 101, 102, 103, 111, 112, 113, 121, 131, 141, 151, 161, 173, 191, 192, 193, 201, 202, 211, 212, 219, 221, 222, 223, 224, 229, 231, 232, 239, 241, 243, 245, 247, 249, 251, 252, 253, 254, 259, 269, 279, 289

ASTRONOMY

Lab Sciences: 100 (4 cr.), 200

Electives and/or Service Courses: 291*

BIOLOGICAL SCIENCES

BACTERIOLOGY

Lab Sciences: 101

Electives and/or Service Courses: 299*

BOTANY

Lab Sciences: 100, 109, 130, 151, 152, 231, 250, 260, 400, 450

Electives and/or Service Courses: 107, 116, 160, 240, 291*, 299*

NATURAL RESOURCES

Lab Science: FOR 120

Elective and/or Service Courses: NAT 170

PHYSIOLOGY

Lab Science: 104, 202, 203, 235

Electives and/or Service Courses: 170

ZOOLOGY

Lab Science: 101, 103, 109, 140, 151, 152, 234, 235, 237, 250, 260, 277, 430, 516

Electives and/or Service Courses: 105, 107, 203, 291*, 299*, 505, 515

BUSINESS

Elective and/or Service Courses: All courses

CHEMISTRY

Lab Science: 124, 125, 145, 155, 203, 211, 214, 244, 343, 352

Electives and/or Service Courses: 100, 203, 214, 233, 272, 290*, 299*, 343, 363

COMMUNICATION ARTS

Humanities: 130, 150, 160, 220, 266, 267, 268, 348, 349

Social Sciences: 201

Electives and/or Service Courses: 100, 101, 102, 103, 131, 202, 203, 204, 205, 230, 232, 234*, 298*, 299*

COMPUTER SCIENCE

Electives and/or Service Courses: All courses

ECONOMICS

Social Sciences: 101, 203, 204, 230, 250, 271

Electives and/or Service Courses: 243, 297*, 299*

EDUCATION

Electives and/or Service Courses: All courses

ENGINEERING

Lab Science: MEC 203

Electives and/or Service Courses: EGN 100, 106; GRA 102, 113; MEC 201, 202

ENGLISH

Humanities: 120

Humanities/Literature: 200, 205, 209, 211, 213, 214, 215, 216, 217, 218,

219, 227, 251, 253, 255, 290, 297, 298

Required Courses: 101, 102

Electives and/or Service Courses: 103, 201, 203, 204, 299*

FOREIGN LANGUAGE

FRENCH

Humanities: 202, 215, 225, 226, 219

Humanities/Literature: 221, 222, 223, 275, 276, 277, 291*, 299*

Electives: 101, 102, 118, 119, 201

GERMAN

Humanities: 202, 215, 216, 225, 226, 219

Humanities/Literature: 221, 222, 275, 276, 277, 291*, 299*

Electives: 101, 102, 118, 119, 201

SPANISH

Humanities: 202, 219, 225, 226, 236

Humanities/Literature: 221, 222, 266, 275, 277, 291*, 299*

Electives: 101, 102, 118, 119, 201

GEOGRAPHY

Social Sciences: 101, 110, 115, 277, 297, 300, 324, 341, 342, 347, 348, 349, 350

Lab Sciences: 120, 123, 124, 130 (4 cr.)

Electives and/or Service Courses: 121, 125, 130 (3 cr.), 291*, 299*

GEOLOGY/METEOROLOGY

Lab Sciences: 101, 102, 130, 131, 169, 301, 302, 314, MGL 100 (4 cr.)

Electives and/or Service Courses: 100, 135, 228, 291*, 297**, 299*, 316, 350, 409, 414, 443; MGL 100 (2 cr.)

HISTORY

Humanities: 111, 112, 115

Humanities/Social Science: 105, 106

Social Sciences: 101, 102, 110, 114, 116, 117, 119, 120, 121, 123, 124, 126, 127, 150, 178, 183, 185, 186, 190, 195, 197, 198, 203, 211, 213, 216, 219, 221, 222, 223, 225, 254, 255,

256, 257, 259, 260, 270, 278, 280,
283, 285, 286, 288, 289, 290, 291,
293, 295, 297, 299

INTERDISCIPLINARY COURSES

Electives and/or Service Courses: All
courses

LECTURE FORUM

Electives and/or Service Courses: All
courses

MATHEMATICS

Mathematics: All courses above 100 level
meet requirements for AA; 105 and
above for AS degree

MILITARY SCIENCE

Electives and/or Service Courses: All
courses

MUSIC

Humanities: 171, 172, 173, 174, 271,
272, 273, 275, 276, 295*

Electives and/or Service Courses: All
other courses including applied music

PHILOSOPHY

Humanities: 101, 103, 106, 201, 210,
211, 220, 240, 241, 248, 253, 258

Humanities/Literature: 226

Social Sciences: 101, 102, 103, 106, 201,
211, 220, 240, 241, 248, 258

Electives and/or Service Courses: 291*,
299*

PHYSICAL EDUCATION

Electives and/or Service Courses: All
courses

PHYSICS

Lab Sciences: 107 (4 cr.), 110 (4 cr.), 120
(4 cr.), 141, 142, 201, 202, 211, 212,
213

Electives and/or Service Courses: 107 (3
cr.), 110 (3 cr.), 120 (3 cr.), 205, 291*,
299*

POLITICAL SCIENCE

Social Sciences: All courses

PSYCHOLOGY

Lab Sciences: 225

Social Sciences: 201, 202, 203, 204, 205,
208, 210, 224, 250, 254, 299, 411,
449, 507, 509, 530, 560, 561, 562.

SOCIOLOGY

Social Sciences: All courses

* 291, 297, 298, 299 courses are
usually considered as Elective
and/or Service Courses. Excep-
tions to this designation will be
so indicated in your campus
timetable.

Academic Procedures and Regulations



The Academic Regulations are subject to change. The Office of Student Services can provide specific up-to-date information.

Definition of credit

Each course is assigned a number of credit hours. Credit is expressed in semester hours. A credit of one semester hour normally represents one hour of lecture per week or two hours of laboratory or studio per week. A student should expect to spend approximately two to three hours outside of class each week in preparation and study for each credit.

Credit load

The maximum credit load for freshman students is 17 credits a semester; for sophomore, the maximum is 18 credits. In summer sessions, the maximum credit load is nine credits for any and all work taken during the summer, whether in an eight week session and/or any combination of shorter sessions. For a four week session, the maximum credit load is four credits. Students who wish to exceed these limits must have approval of the Office of Student Services and/or the advisor.

Non-degree credit

Some courses are offered for non-degree credit. Examples are Math 081 and 091, which are high school algebra and geometry. Such courses will not be counted toward the associate degree and are not used in determining a grade point average for any purpose. However, non-degree credits will count in determining whether a student has completed sufficient course work to maintain satisfactory academic standing.

0 Credit courses

Some courses are offered for 0 degree credits. If a student takes a course for 0 credits, a grade will be recorded. The student is expected to do all of the assigned work in a course taken for 0

credits. When determining assessment of fees, courses taken for 0 credit will count as one credit in the student's credit load.

Pass/Fail

The University offers the privilege of taking courses on a pass/fail basis. The purpose is to permit the student to take elective courses to explore a field or subject without regard for the letter grade earned in the course. Only the elective courses applicable to the associate degree may be taken on a pass/fail basis. The results of any course taken on this basis will not affect a student's grade-point average.

All students are eligible to elect one course on the pass/fail basis per semester (including summer session) with a maximum of two such courses while a freshman and two courses while a sophomore.

If a student elects to take a course on this basis, the decision must be made within the same time as for adding a course. A student cannot change a course either to or from the pass/fail basis after the deadline for adding a class.

Students who are undecided about a major should not take courses on a pass/fail basis which might later become part of their major requirements. Most universities do not permit courses taken on a pass/fail basis to count toward meeting major or general studies requirements.

The instructor of a non-degree credit course which is listed in the catalog and the instructor of courses listed under LEC (lecture forum) in the catalog may grade an entire class on a pass/fail basis. When an entire course is to be graded on the pass/fail basis, it shall be indicated as such in the timetable.

Instructors will assign final grades for courses taken on a pass/fail basis. Grades will be indicated as pass (S) or fail (I). Courses taken on this basis will not affect your grade point average.

Auditing a course

A student may wish to audit a course to gain whatever knowledge and under-

standing is available by sitting in on a class. A student who wishes to audit a course must have the consent of the instructor concerned. Auditors may not expect to take examinations nor may they expect to have any course work evaluated by an instructor. Students who wish to audit a class may be refused permission to audit if their presence in the class will result in additional classroom space requirement or increased instructional costs.

Audited courses carry no degree credit and are not counted in the student's grade point average. Audited courses do not count toward full-time attendance for purposes such as certification of full-time attendance for Social Security or Veterans' Administration benefits.

Students may change from audit to credit status during the same time period as that allowed for adding a course and may change from credit to audit status during the time period allowed for dropping a course.

A course which has been audited may be repeated for credit at a later time.

Grading system

Semester grades are reported by letter only. Each letter grade carries a specified number of grade points per credit; thus a B in a three credit subject gives nine grade points. The scale of grades and grade points is:

Grade	Grade Points Per Credit
A (Excellent)	4.00
A-	3.67
B+	3.33
B (Good)	3.00
B-	2.67
C+	2.33
C (Fair)	2.00
C-	1.67
D+	1.33
D (Poor)	1.00
D-	0.67
F (Fail)	0.00
FN (Fail - not attending)	0.00

The following symbols are used as grades where grade points are not assigned:

- AU - Used for audited courses.
- I - Incomplete
- R - Repeat. Used in first semester freshman English and developmental courses when the student is making progress but has not mastered the subject and must repeat the course.
- S - Satisfactory. A passing grade for courses taken on a pass/fail basis.
- U - Unsatisfactory. A failing grade for courses taken on a pass/fail basis.
- W - Withdrew. This symbol will be recorded opposite the course number and title on the record card or transcript for any course dropped after the end of the third week of classes and before the deadline for dropping courses. Only the fact of registration and withdrawal will be recorded when students withdraw from an entire program.

The following symbols are used immediately following the number of credits:

- N - Course offered for non-degree credit.
- H - Course taken for Honors Credit.
- A - Course was audited.

Grade Point Average (GPA)

The general quality of a student's work is expressed in terms of a grade point average (GPA). The highest possible grade point average is 4.0, which represents a grade of A in every subject attempted; the lowest, 0.0, which represents a grade of F or FN in every subject attempted.

The grade point average is determined, whether for the semester or on a cumulative basis, by dividing the total number of grade points earned by the total number of credits attempted. Courses in which the student received a grade of AU, I, R, S, U or W will not be included in determining the grade point average. If a student completes a course in which a

grade of I was received, the credits and grade points earned for that course will be included when figuring the cumulative GPA.

Incompletes

An Incomplete may be reported for a student who has carried a subject with a passing grade until near the end of the semester and then, because of substantiated cause beyond the student's control, has been unable to take the final examination or to complete a limited amount of term work.

The instructor also will submit a grade to be recorded as a permanent grade for the course in case the incomplete is not removed. This tentative grade will be recorded by the instructor on the final grade sheet for the class, along with the grade of "Incomplete."

It is the responsibility of the student to consult with the instructor to reach an understanding regarding the work to be completed. The instructor will then file a detailed report of the work which must be completed in order for the student to finish the course. The format of that report and the place of filing will be determined by the individual Center.

The student must remove an incomplete before the end of the next semester. Exceptions to this time limit may be made by mutual agreement of the instructor concerned and the student, with written notification by the instructor to the Office of Student Services. If the incomplete has not been removed within the time limit, it will be replaced by the tentative grade reported by the instructor on the final grade sheet. The student may elect to remove the incomplete by repeating the course, in which case the regulations for repeating courses will apply.

Repeating Courses

Students may elect to repeat courses to improve their grade point averages or to build better foundations before taking succeeding courses in a discipline.

There is no limit on the number of times that a course may be repeated; all attempted courses and all grades earned will appear on the record or transcript, in-

cluding all times that a repeated course was taken. A student who is repeating a course for the purpose of improving a grade must file a "Course Repeat" form during the semester in which the course(s) is being repeated. When a Course Repeat form is filed, **only the most recent credits attempted and grade points earned will be used in computing the cumulative grade point average.** Courses repeated in schools other than the UW Centers will not affect a student's grade point average.

If the Course Repeat form is not filed, all credits attempted and grades earned will be used in determining the grade point average. However, such courses may not always be counted twice toward the number of credits required for the Associate Degree. For example, if a student takes History 101 twice for 3 credits each time, that student will not have earned 6 credits toward a degree.

There are some courses which students may take more than one time and count all credits earned in those courses. Examples of such courses are Orchestra and Chorus.

Students planning to repeat a course, especially those receiving benefits from VA or Social Security should consult with the Office of Student Services.

Mid-term and final grades

Adequate interim evaluation of a student's progress is the faculty member's responsibility whereas formally notifying the student of that progress is a responsibility of the Office of Student Services. The interim evaluation should reflect the student's progress through such a portion of the semester that the student can be formally notified by the end of the ninth week of classes. The instructor should also inform the student so that the student knows his interim grade as soon as possible.

Final grades must be reported by the instructor within 72 hours after the final examination.

Final grade reports are mailed to students at the end of each semester and at the end of each summer session. Notification of any probationary or suspension action will be on the grade report.

Grade changes

No grade changes may be made other than by the instructor who gave the original grade. Grade changes must be reported on the appropriate form and signed by both the instructor and the Dean.

Final examinations

Final examinations must be given at designated times. If students have more than two examinations on one day or two examinations scheduled for the same time, they should make arrangements with one of the instructors concerned to take one of the examinations at an alternate time. If such arrangements cannot be made, the instructor of the course of lower enrollments shall provide an alternate examination time.

Calendar week

In determining the applicability of an academic regulation which refers to the week of classes, the course session week ends with the last day of instruction of the calendar week. (The calendar week is defined as starting on Sunday and ending on Saturday.)

Dropping courses

A student may drop a course(s) by completing the Change of Program (Add/Drop) form during the **first ten weeks** of a semester-long course; during the first five weeks of an eight-week course, and a proportionate time for shorter courses. A Center may require the student to obtain advisor and/or instructor signatures. Merely discontinuing attendance in a course or courses may result in an official grade of FN being recorded for that course(s).

A grade of W (Withdrawn—see section on Grading System) will be recorded for courses officially dropped after the end of the third week of classes.

Refund of student tuition is governed by the Regent Fee Schedule which is issued on an annual basis. The date upon

which a student returns the completed Change of Program form to the appropriate Center office is the date used to determine any applicable refund of fees.

Adding courses

A student may add a course(s) by completing the appropriate Change of Program (Add/Drop) form during the **first two weeks** of a semester, the first week of an eight week course, and during a proportionate time for shorter courses. A Center may require the student to obtain advisor and/or instructor signatures to make such a change official. The completed Change of Program form must be returned to the appropriate Center office.

A course may be added after the second week of classes of a semester if the change of program is necessitated by dropping a course and substituting a lower-level course in the same discipline.

Exceptions to the time limit may be made only with the written consent of the instructor concerned.

Late registration

The student may register late under the same regulations as for adding courses, subject to any assessment for administration which is in effect under Regent policy.

Complete withdrawals

Students may completely and officially withdraw from school by completing the Withdrawal form during the **first ten weeks** of a semester or the first five weeks of an eight-week session or the proportionate time for shorter sessions.

The Withdrawal form must be signed by the student and other appropriate persons as determined by each Center office.

Students who do not complete the Withdrawal form during the first ten weeks (or proportionate time for shorter sessions) and obtain the required signatures may receive grades of "F" or "FN" in all courses for which they are registered.

Refund of student tuition is governed by the Regent Fee Schedule which is issued on an annual basis. The date upon which a student returns the completed Withdrawal form to the appropriate Center office is the date used to determine any applicable refund of tuition.

Any student who withdraws during a semester is subject to warning and/or suspension as explained in the following paragraph headed "Satisfactory Progress Standards".

Academic standing

Every student is expected to maintain certain standards of academic achievement in all work carried at the University. The University has established these standards in terms of the quality of the work, as measured by the semester and cumulative grade point averages, and the quantity of work satisfactorily completed, as measured by the proportion of the credit load completed each semester.

Certain exceptions are allowed for part-time students, but unless otherwise stated part-time students are expected to meet the same standards of academic achievement as any other student.

Good standing - is a status assigned when a student is making satisfactory progress and his/her cumulative GPA is 2.0 or better.

Probation - is a status assigned to a student for inadequate performance as measured by the grade point average.

Warned - is a status assigned when a student does not make satisfactory progress, as explained below.

Academic Suspension - is a status assigned when the record of satisfactory progress and/or achievement is unacceptable to the extent that the student is not permitted to continue to enroll in the University.

Probation and suspension status: The University is concerned about students whose academic achievements seem to indicate that they are not able to meet the expectations of their instructors or are experiencing other problems that may be interfering with their studies. A probation action is an advisory warning that a student should take appropriate actions to improve his/her achievement.

A suspension action is taken when the University feels that the student's academic achievement record to date indicates a need to interrupt enrolled status to reassess and reevaluate goals and plans. A student who has been placed on probation or suspension status should give careful consideration to the factors that may be involved. The institution encourages such students to seek assistance from counselors, advisors and course instructors.

Every student is expected to maintain at least a C average (2.0 GPA) on all work carried. Failure to achieve this minimum C average (2.0 GPA) in any term will result in a probation, final probation or suspension action at the end of that term. Suspension actions are taken at the end of each semester.

Satisfactory Progress Standards: Students are expected to make satisfactory progress in their course of study. Those who withdraw from their entire program or do not complete at least half of the maximum number of credits for which they are registered during the first two weeks of classes in any one semester will be warned. Once a student has been warned, suspension will result if the student either withdraws completely or again does not complete at least half of the maximum number of credits for which registered during the first two weeks of classes, in either of the next two semesters for which the student has been registered.

Students who enroll for an original credit load of less than 6 credits are exempt from academic progress standards as measured by completed credits.

For the purpose of determining satisfactory progress, "credits completed" includes courses for which grades have been received of A, B, C, D, R or S (and any plus or minus values). Non-degree credit courses and repeated courses are included.

No course will be considered completed if the status of that course is changed to audit (AU) or if the grade of record in that course is an F (Fail), or FN (Fail-not attending), U (Unsatisfactory), I (Incomplete), or W (Withdraw). If satisfactory removal of an I results in completion of at least half the credits for a particular semester, the warned or suspension action will be rescinded.

Students placed on a suspension status because of a failure to make satisfactory progress may appeal the suspension to the proper committee at the Center (see Suspension Status and Appeals).

Grade point requirements and actions:

1. Student in Good Standing at the beginning of the semester.
 - 1.0 to 1.999 semester GPA will result in probation status.
 - 0.999 or less semester GPA will result in a final probation status.
 - action will be withheld until at least 6 credits have been attempted in a Center. When six credits have been attempted, students with a cumulative GPA of 1.00 to 1.99 will be placed on probation. Students with a cumulative GPA of 0.99 or less will be placed on final probation.
2. Student on Probation at the beginning of the semester.
 - 1.00 to 1.999 semester GPA will result in final probation status.
 - 0.999 or less semester GPA will result in a suspension status.
 - 2.0 or better semester GPA but less than a 2.0 cumulative GPA will result in a continuation on probation.
 - 2.0 or better cumulative GPA will result in a return to good standing.
 - A student admitted to a Center on probation must earn a 2.0 GPA on a minimum of 15 credits attempted in a Center in order to return to good standing.
3. Student on Final Probation at the beginning of the semester.
 - Less than 2.0 semester GPA will result in a suspension status.
 - 2.0 or better semester GPA will result in a continuation on final probation.
 - 2.0 or better cumulative GPA will result in a return to good standing.
 - A student admitted to a Center on final probation must earn a 2.0 GPA on a minimum of 15 credits attempted in a Center in order to return to good standing.

Suspension status: The first suspension status will result in a suspension from school for one semester. A subsequent suspension status will result in a suspension from school for two semesters. A student in suspension status may register, for a summer session or January interim only, with permission of the Dean.

A student in suspension status may appeal the suspension to the proper committee at the Center. Any appeal must include a clear explanation of the problems that resulted in the inadequate achievement and how the student proposes to resolve those problems. A student who is allowed to continue will be on final probation and will be subject to any other special conditions that may be designated.

Appeals: Any academic action may be appealed, except probation or final probation. A student may ask for an exception to any academic regulation. The method of handling such exceptions will be determined at each Center; normally the appeals will be handled by an academic actions committee.

Readmission: Students who have stayed out of school for the period of suspension, whether one semester or one year, are not automatically readmitted. Such students must file an application for admission and secure permission to resume their education in the institution through the Office of Admission or Office of Student Services at the Center they wish to attend. A student who is readmitted will be on final probation and will be subject to the normal standards of progress and achievement and any other special conditions that may be designated.

Summer Session: No probation, final probation or suspension actions will be taken at the end of a summer session or January Interim. Credits attempted and grade points earned are included in the cumulative GPA and will be used in determining subsequent actions.

Class attendance

Instructors shall inform their students of the instructors' expectations regarding class attendance. Students are responsible for completing all work missed because of any absences from class. If students plan to be absent from class because of field trips or extracurricular activities sponsored by the Center, the faculty member in charge of the activity shall provide such information to the other instructors whose classes will be missed.

The Veterans' Administration and Social Security Administration expect students receiving benefits under their programs to attend all classes. Students should consult the Office of Student Services for complete information.

Student classification

- 0 - 29 degree credits equal Freshman Standing
- 30 - or more degree credits equal Sophomore Standing

Honors or Dean's List

Each Center may publish a Dean's List to honor students with high grade point averages each semester. Honors will be awarded to full-time students carrying a minimum of 12 semester credits which are used in determining grade point average as detailed below. Honors will be awarded to part-time students who have earned at least 15 credits with an average of 3.5 and who carry a minimum of 3 semester credits which are used in determining grade point average, as detailed below. The designation of part-time student will appear on the Dean's List.

Honors: Grade point average of 3.50 through 3.74

High Honors: Grade point average of 3.75 through 3.99

Highest Honors: Grade point average of 4.00

Students may request that their names be deleted from the Dean's List.

Transfer

If you plan to continue your study at a four-year degree-granting institution, you will necessarily be involved in the transfer process.

The institution encourages you to make transfer decisions early and to study catalogs and other pertinent information from the selected four-year institution in order to determine general and specific major requirements. You should consult the Center's Office of Student Services for advice about transfer requirements, procedures, and plans, as early as possible. Credits earned in the institution are University of Wisconsin credits and will be accepted as University of Wisconsin credits by other colleges.

Most four-year colleges and universities restrict the number of credits that they will accept toward a degree from a two-year school. Seventy-two credits is the upper limit that can be transferred from a Center to a UW degree-granting institution. However, many schools and colleges within the University of Wisconsin have a limit that is lower than 72 credits. Before you reach the half-way point in completing credits toward a bachelor's degree, you should see an advisor regarding the total number of credits accepted in transfer by the school from which the bachelor's degree is expected.

Students intending to transfer will need to know about some, or all, of the following: admission, housing, and financial aid.

Admission. You must apply to the four-year campus for admission and provide transcripts of all postsecondary coursework you have attempted. In some instances, the particular department or program you want to enter at the four-year campus may require you to submit a separate application or meet separate entrance requirements. Contact your Center's Office of Student Services and the transfer institution for information on specific application procedures, deadlines, and entrance requirements.

Housing. Arrangements for housing at four-year institutions are handled in various ways. Normally, a separate application must be filed for institutional housing, or students must make their own arrangements for private housing.

Consideration of housing arrangements should come early in the transfer process.

Financial Aid. If you wish to receive financial aid at your transfer school, you should indicate this on the admission application; request information about application procedures and any separate application form the school may use; and ask the Center's Office of Student Services to provide a financial aid transcript to the four-year institution.

Transfer Problems. If you have encountered transfer credit problems or other transfer related problems, please consult with your Center's Office of Student Services.

If you have specific questions about other University of Wisconsin System institutions, contact their specific Admissions Office or call the UW-HELP line at its toll free number (1-800-362-3020).

Transcript Request. If you wish to have transcripts sent to another institution or to yourself, the request should be submitted in writing. Forms for this purpose are available in the Office of Student Services. There is a \$2 charge for each transcript. No transcript will be furnished to any student who owes the University any fine, money, or materials or has a delinquent loan account for a loan which was obtained through the University Financial Aid Office, such as an NDSL loan.

Student Disciplinary Guidelines

All students in the U.W. System are governed by the *Student Disciplinary Guidelines* (UWS 17), a copy of which is available in each Center library. The Director of Student Services will be glad to explain any part of these *Guidelines*. The paragraphs which follow outline the procedures by which these *Guidelines* will be applied in the Center System, but they do not substitute for a reading of the primary document.

Student Disciplinary Procedures acknowledge the need to preserve the orderly processes of the University with regard to its teaching, research and public service missions, as well as the need to observe every student's procedural and

substantive rights. Acts which obstruct the University in fulfilling its mission may result in charges of misconduct and thus subject the student to adjudicative processes.

Misconduct may be termed non-academic or academic. That which is intentional and perpetrated against University property, personnel, or activities is defined as non-academic. Action(s) which falsify a student's academic performance are considered academic misconduct.

Investigatory procedures vary according to the kind and degree of alleged misconduct. Offenses of a magnitude sufficient to warrant suspension or expulsion are examined under a formal adjudication procedure. Those offenses which would not warrant suspension or expulsion are examined under an informal adjudication procedure. Academic misconduct is examined under an academic adjudication procedure.

Whenever charges or appeals are pending, the student(s) charged, unless temporarily suspended, continue(s) to have the same rights and privileges accorded other students. However, grades or diplomas may be withheld pending final determination of the charges; a current transcript will be issued at the request of the student, but it may contain the notation "Disciplinary Charges Pending" on the face of it.

Implementation of disciplinary procedures can occur at two levels. Because the point of primary contact by the student is at a specific Center, most conduct matters are dealt with there. The Executive Dean's Office may become involved, however, as the result of an appeal.

Rights of access for student education records

You are entitled to review those records, files, documents, and other materials, defined as "education records," directly related to you, which are maintained by the University. This is pursuant to the federal Family Educational Rights and Privacy Act of 1974. Your access

and review is subject to the following conditions:

1. You must submit the appropriate request form for reviewing your records to the Student Services Office. This form will be placed in your file. The Center has 45 days to comply with your request.

2. You do not have access to certain kinds of information excluded by the Act: (a) personal notes of Center staff and faculty; (b) employment records; (c) medical and counseling records used solely for treatment; (d) records kept by the person responsible for campus security; (e) financial records of your parents; (f) confidential letters and statements of recommendation placed in your records prior to January 1, 1975; and (g) confidential letters and statement of recommendation for admission, employment, or honorary recognition placed in your records after January 1, 1975, for which you have waived the right to inspect and review.

"Education records" maintained by the Center include, but are not confined to, the following:

- (1) high school and college transcripts and other educational records submitted by the student along with application for admission;
- (2) scores of placement tests, and ACT or SAT scores if student requested that a copy be sent to the Center;
- (3) records of registration and grades for each term;
- (4) requests of the student for reinstatement, special permission to withdraw after deadlines, etc. with the action that was taken in response to the request;
- (5) other records except those to which a student does not have access as outlined in 2 above.

"Education records" maintained by the Registrar include:

- (1) record of registration
- (2) subjects carried and grades earned

After reviewing your records, you may challenge any information contained in your "education records" which you believe to be inaccurate, misleading, or inappropriate. This right does not extend to reviewing grades unless the grade assigned by your professor was inaccurately recorded in your records. You may also insert a statement in your record to

explain any such material from your point of view. If you wish to challenge information in your file, you must make a written request for a hearing to the Dean of the Center.

If your request for a record modification is not granted, you will receive written notification of the reasons and a copy of this notification will be placed in your file. In most cases, the decision of the dean will be final. However, you may file an appeal in writing to the Executive Dean, who will review the decision only if a significant question of policy or compliance with the law appears to be raised by the case. Your appeal to the dean or to the Executive Dean must be acted upon within 45 days from the date of the appeal.

Should you wish, in the process of challenging your record, to have copies of any documents in your file, there will be a charge of \$1.00 for a copy of each document. This charge does not apply to copies of your transcript.

You are further advised that, under the Act, this Center construes the following to be directory information which is available to the public: *name, address, telephone number, date of birth, dates of attendance, degrees and awards received, sex, marital status, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, most recent previous educational agency or institution attended, parent/ spouse/ guardian name and address.* No other information will be released to a third party, except as provided by law, without your prior consent. Moreover, you have the right to inform the Center that any of the italicized information may not be released without your prior consent. If you choose to have directory information restricted or additional information released, you should file the appropriate request form in the Student Services Office.

No information from your education record will be released to a third party, except as provided by law, without a signed release from you. If a request from a third party does not include your signed release, you will be notified of the request and given an opportunity to sign such a release. If a judicial order for your education record is issued, you will be notified prior to the release of the information.

Policy against sexual harassment

The University of Wisconsin Centers believes that respect for human dignity is essential to an appropriate university environment. Thus, sexual harassment of students and employees is impermissible and unprofessional conduct and will not be tolerated. Conduct determined to fall within the definition of sexual harassment will be subject to disciplinary action in accordance with applicable due process requirements, including but not lim-

ited to, reprimand, temporary suspension, expulsion, or discharge of the harassing individual.

Sexual harassment may be defined as unwelcome sexual advances, requests for sexual favors, and other physical conduct and expressive behavior of a sexual nature where: (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or education; (2) submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions af-

fecting that individual; or (3) such conduct has the purpose or effect of substantially interfering with an individual's academic or professional performance or creating an intimidating, hostile, or demeaning employment or educational environment. (SOURCE: University of Wisconsin Centers Sexual Harassment Policies & Procedures, 1 February 1982.)

Your Center library, Dean's office, and Student Services office have copies of the above policy. In addition, a sexual harassment mediation committee exists at your Center to provide you with information.

Course Descriptions



Course descriptions

Departmental abbreviations

ANT	Anthropology
ART	Art
AST	Astronomy
BAC	Bacteriology (See Biology)
BOT	Botany (See Biology)
BUS	Business
CHE	Chemistry
COM	Communication Arts
CPS	Computer Science
ECO	Economics (See Business & Econ.)
EDU	Education
EGR	Engineering
ENG	English
FOR	Forestry (See Natural Resources, Biology)
FRE	French (See Foreign Languages)
GEO	Geography
GER	German (See Foreign Languages)
GLG	Geology
GRA	Engineering Graphics (See Engineering)
HIS	History
INT	Interdisciplinary Studies
LEA	Learning Resource
LEC	Lecture Forum
MAT	Mathematics
MEC	Engineering Mechanics (See Engineering)
MLG	Meteorology (See end of Geology listing)
MLS	Military Science
MUA	Music, Applied
MUS	Music
NAT	Natural Resources (See Biology)
PED	Physical Education
PHI	Philosophy
PHS	Physiology (See Biology)
PHY	Physics
POL	Political Science
PSY	Psychology
SOC	Sociology
SPA	Spanish (See Foreign Languages)
ZOO	Zoology (See Biology)

On the following pages you will find descriptions for courses offered throughout the entire institution. *No campus offers every single course listed here; many of the courses are offered at only one or two of the campuses.* Yet, all campuses offer the essential freshman-sophomore curriculum to prepare students for all major fields of study.

For a list of the courses offered at your campus, check the proper section of this catalog and your campus' timetable.

Abbreviations for Associate Degree designations:

EL	Electives and/or service courses
HU	Humanities
LI	Literature
LS	Lab Science
MA	Mathematics
RC	Required course
SS	Social science

Refer to page 44 for general review of requirements. Slash designations, for example **PHI 201 HU/LI**, mean that the course meets either associate degree requirement.

*291, 297 and 299 courses would normally be considered as Electives and/or service courses. Exceptions to this designation will be so indicated in your campus timetable.

ANTHROPOLOGY

General:

ANT 100 General Anthropology. 3-4 cr. General understanding of humans in relation to cultures, evolutionary development and racial diversity, capacities for society and the development of the world's major cultures. *SS.*

ANT 291 Topics in Anthropology. 3-4 cr. The topic selected will be in some area of special competence of the instructor. When this course is offered, the specific topic will be indicated in the campus timetable. Prerequisite: Anthropology 100, 102, or 105, or consent of instructor. *SS.*

ANT 293 Proseminar in Anthropology. 1-4 cr. The topic selected will be in some area of special competence of the instructor; when this proseminar is offered, the specific focus will be indicated in the campus timetable. Prerequisite: Anthropology 100, 102, or 105, or consent of instructor. *SS.*

ANT 299 Independent Reading and Research in Anthropology. 1-4 cr. Prerequisite: Anthropology 100, 102, or 105, or consent of instructor. *SS.*

ANT 440 Introduction to Anthropological Research. 3 cr. Supervised research on topics selected by students. Working independently or in small groups, students investigate problems in depth and report their conclusions. Prerequisite: introductory course and consent of instructor. Sophomore standing. *SS.*

Biological:

ANT 105 Introductory Human Biology. 3-4 cr. Genetic basis of morphological, physiological and behavioral variations within and between human populations and their origin and evolution. Prerequisite: high school biology or consent of instructor. *3 cr.-SS. 4 cr.-LS.*

ANT 106 Human Biology Lab. 3-4 cr. Lab training in the techniques of description and analysis of human morphological and serological variations. Prerequisite: ANT 105 or concurrent registration in ANT 105 or consent of instructor. *LS.*

ANT 303 The Human Skeleton. 3 cr. Individual bones and teeth; sex, age, and racial variation; stature reconstruction; continuous and discontinuous morphological variations; forensic aspects of individual identification; lab training in observations, measurement, and analysis; lecture and lab. Prerequisite: consent of instructor. *LS.*

ANT 304 Heredity, Environment and Human Population. 3 cr. Cultural and ecological factors influencing the composition and structure of human population; expression and distribution of genetic characters within and between populations; racial differences, race formations; constitutional studies, mating systems and their genetic consequences. Prerequisite: introductory course in ANT, Zoology, or consent of instructor. *3 cr. SS., 4 cr. LS.*

ANT 408 Introduction to Non-Human Primates. 3-4 cr. Basic aspects of the non-human primates; geographical distribution, ecology, (habitat, diet), morphology, locomotory and social behavior, reproduction and development, evolution. Prerequisite: Anthropology 100, or 105, or consent of instructor. *LS.*

Prehistorical:

ANT 102 Archaeology and the Prehistoric World. 3 cr. Introduction to the prehistoric world from origins of human culture to the beginnings of written history as revealed by archaeological research at great sites and ruins around the globe. Archaeological analysis of famous prehistoric sites as case studies to illustrate concepts and techniques used by archaeologists in their efforts to understand the rise, florescence and demise of vanished societies. *SS.*

ANT 222 Emergence of Human Culture. 3 cr. Worldwide archaeological evidence for the development of human culture and behavior from the earliest appearance of human groups to the agricultural revolution. Archaeological methods and theory covered extensively to introduce humanity's first two million years. Prerequisite: sophomore standing or consent of instructor. *SS*.

ANT 302 Archaeology of Wisconsin. 3-4 cr. Survey of Wisconsin archaeology from the earliest occupation of the state through the historic period and subsequent tribal breakdown. Emphasis is on ecological and historical factors influencing development of prehistoric and historic aboriginal culture of Wisconsin. Prerequisite: ANT 100, 200, or 105, or consent of instructor. *SS*.

ANT 308 Archaeology of North America. 3-4 cr. Main pre-Columbian cultures and evidences of ancients north of Mexico. Prerequisite: ANT 222, or consent of instructor. *SS*.

ANT 311 Archaeological Field and Laboratory Techniques. 4 cr. An introduction to the methods of laboratory analysis of recovered materials; choice of techniques with respect to problems; contributions of related fields to archaeological interpretations; reconstruction of ancient societies and cultural history. Prerequisite: consent of instructor. *LS*.

ANT 322 The Origins of Civilization. 3-4 cr. Global archaeological survey of the origins of pristine civilizations beginning with the development of food production and ending with the emergence of the world's first civilizations. Focus of attention: Near East, Egypt, the Indus Valley, North China, Mesoamerica, and Peru. Prerequisite: ANT 222 or consent of instructor. *SS*.

ANT 370 Field Course in Archaeology. 3-6 cr. An introduction to the techniques of field archaeology, including site survey, mapping, and excavation, by participation in an actual archaeological field project. Also instruction in the description, analysis of artifacts. The site(s) excavated vary each year. Normally taught in summer. Prerequisite: ANT 102 and consent of instructor. *LS*.

Linguistic:

ANT 301 Introduction to Linguistics: Descriptive and Theoretical. 3-4 cr. Elementary theory and practical work in phonetics, phonology, morphology, and syntax, formal grammar and semantics. *HU*.

Cultural: Topical and Area

ANT 200 Cultural Anthropology. 3 cr. Variations of human cultures and the comparative study of human institutions. Prerequisite: Anthropology 100, 105, or consent of instructor. *SS*.

ANT 204 Cultures of the World. 3 cr. Ethnographic survey of the world's peoples and their cultures. Major regions of the world considered in an attempt to outline the variety, richness, significance and the persistence of cultural traditions. *SS*.

ANT 314 Indians of North America. 3 cr. Description and analysis of native cultures, and the role of environmental and historical factors in North America. Prerequisite: Anthropology 100, 105, or consent of instructor. *SS*.

ANT 325 Peoples and Cultures of East Asia. 3-4 cr. Description and analysis of eastern Asian cultures; the great civilizations, the non-literate societies and the problems of contemporary cultural change. Prerequisite: ANT 100, 200 or consent of instructor. *SS*.

ANT 330 Topics in Ethnology. 4 cr. Content varies. Some representative topics: values in anthropological interpretations, ethnocentrism, transformation of "Primitive societies," folklore of (specific area). Prerequisite: introductory course in cultural ANT or consent of instructor. *SS*.

ANT 341 Technological Change and Culture Patterns. 4 cr. Methods in application of anthropology and analysis of contemporary cases relating to human problems resulting from technical change. Prerequisite: ANT 100, 105, 200 or consent of instructor. *SS*.

ANT 343 Anthropology of Religion. 3-4 cr. Anthropological approaches to selected religious systems, including geographic and topical comparisons, critical considerations of outstanding contributions, and a view of religion as an ethnographic problem. Prerequisite: 100, 200 or consent of instructor. *SS*.

ANT 349 Culture Contact and Acculturation. 3-4 cr. Processes of cultural interchange, attention to the selective nature of cultural borrowing and the way in which borrowed traits are modified and integrated into their new cultural setting. Prerequisite: ANT 100, 200 or consent of instructor. *SS*.

ANT 351 Outer Space and Futures Research. 3-4 cr. A survey of present and projected uses of outer space with special emphasis on bio-cultural adaptations in extreme environments, both on earth and in space. *SS*.

ANT 353 Indians of the Western Great Lakes. 4 cr. Analysis of Indian cultures in the area around the western Great Lakes, with emphasis on traditional cultures of the Indians in Wisconsin. Prerequisite: ANT 100, 102, 105, or consent of instructor. *SS*.

ANT 400 Human Sexuality: an Anthropological Perspective. 3 cr. An anthropological examination of the biological, psychological, sociological and cultural bases of human sexual behavior as a means of providing students with up-to-date empirical information concerning human sexuality. *SS*.

ANT 450 Illness and Healing in Anthropological Perspective: Introduction to Medical Anthropology. 3 cr. A cross-cultural examination of the definition, explanation and treatment of disease utilizing the holistic approach of anthropology. *SS*.

ANT 470 Cultural Ecology. 3-4 cr. The comparative study of human populations in ecosystems. Relations between culture and the bio-physical environment with the focus on cultural adaptations. Implications for anthropological theory, sociological evolution and contemporary problems. Prerequisite: introductory course in ANT. *SS*.

ANT 545 Culture and Personality. 3-4 cr. Development of psychologically oriented studies in cultural anthropology. Relevant research in language,

cognition, intercultural communication and cross-cultural study of mental illness. Prerequisite: ANT 100, 200 or consent of instructor. *SS*.

ANT 570 Anthropology of Education. 3-4 cr. Current and historical relation of anthropology to education with particular reference to culture contact and social change, cultural perspectives on education and educational systems, learning as cultural transmission and application of anthropological knowledge to curriculum. Prerequisite: ANT 100, 200 or consent of instructor. *SS*.

ART

ART 101 Drawing. 3 cr. Principles of creative and structural drawing; an investigation of the methods and materials of draftsmanship and expression. A lecture-lab class that meets 6 hours per week. *EL*.

ART 102 Drawing II. 3 cr. Continuation of Art 101. Lecture-lab, 6 hours per week. Prerequisite: Art 101. *EL*.

ART 103 Drawing III. 3 cr. Continuation of Art 102; emphasis upon the academic discipline in drawing. Lecture-lab, 6 hours per week. Prerequisite: Art 102. *EL*.

ART 111 Two Dimensional Design. 3 cr. Basic elements of design; arrangement of line, color, value, texture. Lecture-lab, 6 hours per week. *EL*.

ART 112 Three Dimensional Design. 3 cr. Basic elements of design; introductory experiences in the use of volume and spatial arrangement. Lecture-lab, 6 hours per week. *EL*.

ART 113 Layout and Lettering. 3 cr. Letter style and typographic design applied to various modes of visual communication. Lecture-lab, 6 hours per week. *EL*.

ART 121 Introduction to Painting. 3 cr. Basic media for painting; acrylic, oil, watercolor, casein—a foundation course. Lecture-lab, 6 hours per week. Prerequisite: Art 101, 111; or consent of instructor. *EL*.

ART 131 Introduction to Sculpture. 3 cr. Basic experiences in various media for sculpture. May include: clay modeling, mold making and casting, welding and building—a foundation course. Lecture-lab, 6 hours per week. Prerequisite: Art 101, 112; or consent of instructor. *EL*.

ART 141 Introduction to Printmaking. 3 cr. Studio survey of relief printing, intaglio, lithography, and serigraphy—a foundation course. Lecture-lab, 6 hours per week. Prerequisite: Art 101, 111; or consent of instructor. *EL*.

ART 151 Introduction to Crafts. 3 cr. Studio survey of various craft media. May include: weaving, leather, metal—a foundation course. Lecture-lab, 6 hours per week. Prerequisite: Art 101, 112; or consent of instructor. *EL*.

ART 161 Introduction to Photography. 3 cr. Survey of photographic techniques; camera and dark-room use—a foundation course. Lecture-lab, 6 hours per week. Prerequisite: Art 101, 111; or consent of instructor. *EL*.

ART 171 The Artist and the Visual Arts. 3 cr. Cultural history as it is discerned through an investigation of the artist and the work of art. Lecture. *HU*.

ART 173 Art Introduction. 3 cr. A fundamental course in the basic principles of two and three dimensional design: projects for the non-art major. (Note: art majors will not receive credits in the art department for this course.) Lecture-lab, 6 hours per week. *EL*.

ART 181 Survey: Ancient through Medieval Art. 3 cr. A survey of painting, sculpture, architecture, and the decorative arts of the Mediterranean world and Europe from prehistoric times through the middle ages. Lecture. *HU*.

ART 183 Survey: Renaissance to Modern Art. 3 cr. A survey of painting, graphics, sculpture, architecture, and the decorative arts in the Western world from the later Middle Ages to the present. Lecture. *HU*.

ART 185 Survey: Renaissance Art. 3 cr. An investigation of the major movements, major artistic personalities in painting, graphics, sculpture and architecture of Europe during the Renaissance era. Lecture. *HU*.

ART 187 Survey: Modern Art (Painting, Graphics, and Sculpture). Recent developments in art related to the cultural environment. Field trip. Lecture. Prerequisite: none. Some campuses may elect to offer a chronological sequence surveying all the arts in two increments, ART 187-ART 188. Other campuses offer the course in three distinct sections, which students may elect independently. *HU*.

Section 1 Survey: Modern Art 1850-1920
3 credits *HU*.
Section 2 Survey: Modern Art 1850-1880
1 credit *HU*.
Section 3 Survey: Modern Art 1880-1900
1 credit *HU*.
Section 4 Survey: Modern Art 1900-1920
1 credit *HU*.

ART 188 Survey: Modern Art (Architecture and Related Arts). Recent developments in architecture, environmental planning, commercial and industrial design, furniture, and crafts. Field trip. Lecture. Prerequisite: none. Some campuses may elect to offer a chronological sequence surveying all the arts in two increments, ART 187-ART 188. Other campuses offer the course in three distinct sections, which students may elect independently.

Section 1 Survey: Modern Art 1850-1920
3 credits *HU*.
Section 2 Survey: Modern Art 1850-1880
1 credit *HU*.
Section 3 Survey: Modern Art 1880-1900
1 credit *HU*.
Section 4 Survey: Modern Art 1900-1920
1 credit *HU*.

ART 191 Studio Participation I. 3 cr. Participation by humanities or non-art majors in the sophomore studio offerings that normally demand prerequisites. Consent of instructor required. Declared art majors may not take this course. Lecture-lab, 6 hours per week. *EL*.

ART 192 Studio Participation II. 3 cr. Participation by humanities or non-art majors in the sophomore studio offering that normally demand prerequisites. Consent of instructor required. Declared art majors may not take this course. Lecture-lab, 6 hours per week. *EL*.

ART 193 Community Studio. 1-3 cr. An open-ended, variable credit class designed to meet the needs of the special student who wishes to participate in the scheduled art courses on the campus. Consent of the instructor required. *EL*.

ART 201 Life Drawing I. 3 cr. The discipline of drawing from the human figure; superficial anatomy related to visual expression. Lecture-lab, 6 hours per week. Prerequisite: Art 102, or consent of instructor. *EL*.

ART 202 Life Drawing II. 3 cr. Continuation of Art 201. Lecture-lab, 6 hours per week. Prerequisite: Art 201. *EL*.

ART 211 Advanced Design. 3 cr. Experimentation in visual phenomena. Studio practice with lecture and readings in perception, design theory, philosophy and history of design. Lecture-lab, 6 hours per week. Prerequisite: Art 111, 112, or consent of instructor. *EL*.

ART 212 Materials Workshop. 3 cr. Exploration of materials as they apply to industrial production with emphasis upon new applications for existing materials in three-dimensional problems—hand and power tools are used. Lecture-lab, 6 hours per week. Prerequisite: Art 111, 112, or consent of instructor. *EL*.

ART 219 Drawing: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor must be secured by the student desiring to register for this course. *EL*.

ART 221 Watercolor I. 3 cr. Watercolor, and water-based media as a means of visual expression—an introduction to basic techniques and principles. Lecture-lab, 6 hours per week. Prerequisite: Art 121. *EL*.

ART 222 Watercolor II. 3 cr. Continuation of Art 221. Lecture-lab, 6 hours per week. Prerequisite: Art 221. *EL*.

ART 223 Oil Painting I. 3 cr. Technical investigation and use of materials related to the oil media—a basic studio orientation. Lecture-lab, 6 hours per week. Prerequisite: Art 121. *EL*.

ART 224 Oil Painting II. 3 cr. Continuation of Art 223 with emphasis upon individual research. Lecture-lab, 6 hours per week. Prerequisite: Art 223. *EL*.

ART 229 Painting: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor must be secured by the student desiring to register for this course. *EL*.

ART 231 Sculpture I. 3 cr. Concentration upon the problems of sculptural techniques and execution. Lecture-lab, 6 hours per week. Prerequisite: Art 131 or consent of instructor. *EL*.

ART 232 Sculpture II. 3 cr. Continuation of Art 231. Lecture-lab, 6 hours per week. Prerequisite: Art 231. *EL*.

ART 239 Sculpture: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor must be secured by the student desiring to register for this course. *EL*.

ART 241 Lithography. 3 cr. Aspects of planographic printing related to stone and metal—crayon, toulouse, transfer, registration and color processes.

Lecture-lab, 6 hours per week. Prerequisite: Art 141 or consent of instructor. *EL*.

ART 243 Intaglio. 3 cr. Etching, engraving, aquatint application of grounds and mixed techniques in the incised image. Lecture-lab, 6 hours per week. Prerequisite: Art 141 or consent of instructor. *EL*.

ART 245 Serigraphy. 3 cr. Materials and techniques in the silk screen process—investigation of stencils and resists in printing. Lecture-lab, 6 hours per week. Prerequisite: Art 141 or consent of instructor. *EL*.

ART 247 Relief Printing. 3 cr. Woodcut, wood engraving, and line cut processes; introduction to the problems of color registration and production. Lecture-lab, 6 hours per week. Prerequisite: 141 or consent of instructor. *EL*.

ART 249 Printmaking: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor must be secured by the student desiring to register for this course. *EL*.

ART 251 Metal I. 3 cr. Problems in copper, gold, silver, bronze, and pewter with regard to the craftsmanship and studio procedure. Lecture-lab, 6 hours per week. Prerequisite: Art 151 or consent of instructor. *EL*.

ART 252 Metal II. 3 cr. Continuation of Art 251. Lecture-lab 6 hours per week. Prerequisite: Art 251. *EL*.

ART 253 Ceramics I. 1-3 cr. An introduction to the method of pottery production; including slab, coil, and simple wheel techniques. Lecture-lab, 6 hours per week. Prerequisite: Art 151 or consent of instructor. *EL*.

ART 254 Ceramics II. 1-3 cr. Continuation of Art 253 with emphasis upon wheel production of pottery. Lecture-lab, 6 hours per week. Prerequisite: Art 253. *EL*.

ART 259 Crafts: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor may be secured by the student desiring to register for this course. *EL*.

ART 269 Photography: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor must be secured by the student desiring to register for this course. *EL*.

ART 279 Art Theory and Criticism: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor must be secured by the student desiring to register for this course. *EL*.

ART 289 Art Survey: Independent Study. 1-6 cr. Primarily intended for the special student—see curriculum guidelines. In all cases consent of instructor must be secured by the student desiring to register for this course. *EL*.

Not all courses listed here are offered at all centers. See your campus timetable or course offerings.

ASTRONOMY

AST 100 Survey of Astronomy. 3-4 cr. Descriptive survey of astronomy for students with minimal background in mathematics and science; the solar system, stars, nebulae, galaxies, cosmology, astronomical methods. May be offered for three credits without laboratory work, or for four credits with laboratory work consisting of telescopic observation, laboratory demonstration, and astronomy exercises. Normally not open to students who have had the prerequisite for Astronomy 200. Check the local timetable for credits listed. Prerequisite: high school algebra and geometry or consent of instructor. 3 cr.-EL, 4 cr.-LS.

AST 101 Observational Astronomy. 1 cr. Observation of solar system, galactic and extra-galactic objects, and introduction to basic observational techniques in astronomy. Includes telescopic and unaided eye observation, positional astronomy, astro-photography, optics spectroscopy, interpretation of astronomical data and astronomy laboratory exercises. Students who have AST 200 or AST 100 for 4 credits, or equivalent courses, are not eligible for this course. Prerequisites: one year of H.S. algebra and 1 year of H.S. geometry, or one semester of college-level algebra. If the prerequisite math course was taken more than 5 years ago, consent of instructor is required. LS.

AST 200 General Astronomy. 4 cr. Survey of astronomy for students who have some background in mathematics and physics; the solar system, stars, nebulae, galaxies, cosmology, astronomical methods. Telescopic observation, laboratory demonstration, and astronomy exercises; three hours lecture, two hours lab-discussion per week. Not open to students who have taken Astronomy 100. Prerequisite: Physics 141, Physics 201, or equivalent. LS.

AST 291 Topics in Astronomy. 1-3 cr. An extended coverage of one or more topics in astronomy such as extra-terrestrial life, archaeoastronomy, cosmology, astrophysics, radio astronomy, stellar structure, dynamical astronomy, galactic structure and observational astronomy. Prerequisite: Consent of instructor. EL.

BIOLOGICAL SCIENCES

BACTERIOLOGY

BAC 101 General Survey of Microbiology. 4-5 cr. An introduction to the fundamental principles and techniques of microbiology and their application to public health practices. The subjects of pathology, microbial genetics, evolution, taxonomy, anatomy, and metabolic pathways are discussed. Lecture, lab, and field trips. Prerequisite: introductory courses in chemistry and biology are recommended. LS.

BAC 299 Reading and Research in Microbiology. 1-3 cr. (Same as BOT/ZOO 299) Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation, and to

give practical experience in scientific problem-solving. Prerequisite: consent of instructor. EL.

BOTANY

BOT 100 Survey of Botany. 3 cr. Structure, functions, and life histories, taxonomy and evolution of representative plants throughout the plant kingdom. Lecture, lab, and field trips. LS.

BOT 107 Biological Aspects of Conservation of Natural Resources. 2 cr. (Same as ZOO 107) The principles underlying the proper management of our resources — water, soils, minerals, forests, wildlife and human. The current and past attitudes relating to the resources with the interaction and complexities of man's interests. This is approved as meeting the statutory requirement for Conservation of Natural Resources as required for State certification for teachers of science and mathematics. EL.

BOT 109 Concepts of Biology. 3-5 cr. (Same as ZOO 109) An introduction to the fundamental principles of living organisms. Includes cell and tissue structure, growth, basic physiological processes, reproduction and inheritance, classification, evolution, and ecology. Lecture, lab, and field trips. LS.

BOT 116 Great Ideas In Biology. 2 cr. (Same as ZOO 116) Selected landmark ideas in biology will be discussed not only to familiarize students with the concepts but also to help them appreciate how scientific ideas develop, how technology and basic science interact, how public opinion affects the acceptance and application of advances, and how current breakthroughs are likely to affect man in the future. EL.

BOT 130 General Botany. 3-5 cr. An introduction to plant sciences including the structure, development, and physiology of plants. The relation of the major plant groups and the principles of biology. Lecture, lab, and field trips. LS.

BOT 151 Introductory Biology. 5 cr. (Same as ZOO 151) Living organisms; their structure, functional capabilities, developments, perpetuation, and evolution. In combination with Botany 152 recommended for zoology majors preparatory to advanced zoology courses; also designed for those who wish a single integrated course in biology. Lecture, lab, and field trips. LS.

BOT 152 Introductory Biology. 5 cr. (Same as ZOO 152) Living organisms; their diversity, behavior, ecology and evolution. Lecture, lab, and field trips. Prerequisite: Zoology 151 or Botany 151. LS.

BOT 160 Heredity. 3 cr. (Same as ZOO 160) Principles of heredity with applications to plant, animal, and human inheritance; current advances in genetics and their bearing on the life sciences; lecture demonstrations and discussion. EL.

BOT 231 Survey of the Plant Kingdom. 3-5 cr. A phylogenetic study of the plant kingdom including all major groups of living and fossil plants, the distinguishing morphological features of the major taxa, and the life cycles of representative organisms with evolutionary considerations. Lecture, lab, and field trips. Prerequisite: an introductory course in biology. LS.

BOT 240 Plants and Civilization. 2 cr. Botanical and geographical history of plants important in the

development of civilization and in world economy. Lecture. EL.

BOT 250 Principles of Ecology. 3-4 cr. (Same as ZOO 250) The interrelationships between living organisms and their environment; ecosystems concepts; population dynamics; community organization and distribution; and application of ecological principles to man and his environment. Lecture, lab, and field trips. Prerequisite: an introductory course in biology. LS.

BOT 260 Genetics. 3 cr. (Same as ZOO 260) Laws of variation and heredity and their modification by environment and chromosome behavior. Lecture and lab. Prerequisite: an introductory course in biology. LS.

BOT 291 Special Topics in Botany. 1-3 cr. (Same as ZOO 291) Designed to cover topics in biology not ordinarily covered in other classes. Prerequisite: consent of instructor. EL.

BOT 299 Reading and Research in Botany. 1-3 cr. (Same as ZOO 299) Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation, and to give practical experience in scientific problem-solving. Prerequisite: Consent of instructor. EL.

BOT 400 Classification of Cultivated and Native Plants. 3 cr. Representative families and genera of flowering plants, use of keys and manuals. Lecture, lab and field trips. Prerequisite: an introductory course in botany. LS.

BOT 450 Principles of Plant Ecology. 3-5 cr. Plants and plant communities in relation to their environment. Lecture, lab, and field trips. Prerequisite: introductory botany course or equivalent. LS.

NATURAL RESOURCES

FOR 120 Introduction to Forest Resources. 3 cr. Introduction to the forest resources of the United States with special emphasis on the role of forestry in historic and current events; elementary mensuration; management techniques. Lecture and lab. LS.

WIL 140 Introduction to Wildlife Resources. 3 cr. (See ZOO 140) Wildlife resources of the United States; the importance of wildlife to our past and present economic and cultural life; selected problems in wildlife conservation. Lecture, lab, and field trips. Prerequisite: Introductory course in biology. LS.

NAT 170 Introduction to Natural Resources. 1 cr. Introduction to natural resources with emphasis on their integrated management and their role in man's social and economic welfare. EL.

PHYSIOLOGY

PHS 104 Anatomy and Physiology. 5 cr. An examination of the structure and function of the organ systems of the human body. Lecture and lab. Prerequisite: introductory courses in chemistry and biology are recommended. LS.

PHS 170 Human Anatomy and Physiology. 3 cr. (Same as ZOO 170) Anatomy and physiology of the human body. Demonstration and discussion section designated to emphasize anatomy and basic physiological principles. Lecture and demonstration. Prerequisite: introductory courses in chemistry and biology are recommended. *EL*.

PHS 202 Anatomy and Physiology. 4 cr. An examination of the structure and function of the human body at the molecular, cellular, tissue, organ and system levels of organization. The integration of these levels of organization within the human organism is emphasized. This is the first semester of a two semester sequence. A student who has credit for PHS 202 and PHS 203 may not receive credit toward an associate degree for PHS 235 and ZOO 234. Lecture and lab. *LS*.

PHS 203 Anatomy and Physiology. 4 cr. An examination of the structure and function of the human body at the molecular, cellular, tissue, organ and system levels of organization. The integration of these levels of organization within the human organism is emphasized. This is the second semester of a two semester sequence. A student who has credit for PHS 202 and PHS 203 may not receive credit toward an associate degree for PHS 235 and ZOO 234. Lecture and lab. Prerequisite: Physiology 202. *LS*.

PHS 235 Human Physiology. 5 cr. An examination of the physiological processes of the human body. Lecture, demonstrations, and lab. Prerequisite: introductory courses in chemistry and biology or consent of instructor. A student who has credit for PHS 235 and ZOO 234 may not receive credit for PHS 202 and PHS 203. *LS*.

ZOOLOGY

ZOO 101 Animal Biology. 4-5 cr. General biological principles—structure and function of the cells, histology, embryology, heredity, ecology, and evolution; survey of the animal kingdom; and structure and function of the vertebrate body. Lecture, lab, and field trips. *LS*.

ZOO 103 Human Environmental Biology. 3 cr. A contemporary study of the natural world through the human perspective. Emphasis on humans as a modifying force in the biophysical environment, including selected topics in ecological principles, pollution, population biology, and environmental management. This course is approved as meeting the statutory requirement for Conservation of Natural Resources as required for State certification for teachers of science and social sciences. Lecture, lab, and field trips. *LS*.

ZOO 105 Introduction to Human Biology. 3 cr. Introduction to the development, nature, and processes of human adaptability. *EL*.

ZOO 107 Biological Aspects of Conservation of Natural Resources. 2 cr. (Same as BOT 107) The principles underlying the proper management of our resources—water, soils, minerals, forests, wildlife, and human. The current and past attitudes relating to the resources with the interaction and complexities of man's interests. This is approved as meeting the statutory requirement for Conservation of Natural Resources as required for State certification for teachers of science and social sciences. *EL*.

ZOO 109 Concepts of Biology. 3-5 cr. (Same as BOT 109) An introduction to the fundamental principles of living organisms. Includes cell and tissue structure, growth, basic physiological processes, reproduction and inheritance, classification, evolution, and ecology. Lecture, lab, and field trips. *LS*.

ZOO 116 Great Ideas in Biology. 2 cr. (Same as BOT 116) Selected landmark ideas in biology will be discussed not only to familiarize the student with the concepts but also to help him appreciate how scientific ideas develop, how technology and basic science interact, how public opinion affects the acceptance and application of advances, and how current breakthroughs are likely to affect man in the future. *EL*.

ZOO 140 Introduction to Wildlife Resources. 3 cr. Wildlife resources of the United States; the importance of wildlife to our past and present economic and cultural life; selected problems in wildlife conservation. Lecture, lab, and field trips. Prerequisite: Zoology 101 or concurrent registration. (See WLS 140). *LS*.

ZOO 151 Introductory Biology. 5 cr. (Same as BOT 151) Living organisms; their structure, functional capabilities, developments, perpetuation, and evolution. In combination with Zoology 152 recommended for zoology majors preparatory to advanced zoology courses; also designed for those who wish a single integrated course in biology. Lecture, lab, and field trips. *LS*.

ZOO 152 Introductory Biology. 5 cr. (Same as BOT 152) Living organisms; their diversity, behavior, ecology, and evolution. Lecture, lab, and field trips. Prerequisite: Zoology 151 or Botany 151. *LS*.

ZOO 155 Biology of Human Sexuality and Reproduction. 3 cr. This course focuses on the biological aspects of human sexuality and reproduction. In addition, the following topics will be discussed from a biological perspective: birth control, venereal disease, birth defects, abortion, differences between the sexes, and the manipulation of the human reproductive process by science. *EL*.

ZOO 160 Heredity. 3 cr. (Same as BOT 160) Principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences; lecture demonstrations and discussion. *EL*.

ZOO 170 Human Anatomy and Physiology. 3 cr. (Same as PHS 170) Anatomy and physiology of the human body. Demonstration and discussion section designated to emphasize anatomy and basic physiological principles. Lecture and demonstrations. Prerequisite: introductory courses in chemistry and biology are recommended. *EL*.

ZOO 203 Fertility, Reproduction, and Family Planning. 2 cr. Reproductive physiology. Historical, philosophical, cultural, religious, social, and emotional aspects of the family unit, human sexuality, and fertility control. Organizational and technical factors in birth control and family planning programs. *EL*.

ZOO 234 Human Anatomy. 3 cr. A study of the fundamental structure and organization of the organs and systems of the human body, lecture, demonstrations and lab. A student who has credit for ZOO 234 and PHS 235 may not receive credit toward an associate degree for PHS 202 and 203. Prerequisite: a course in college biology or consent of instructor. *LS*.

ZOO 235 General Invertebrate Zoology. 3-5 cr. Structure, evolution, and ecology of the major groups of invertebrates. Lecture, lab, and field trips. Prerequisite: an introductory course in biology. *LS*.

ZOO 237 Vertebrate Biology. 5 cr. An introduction to the study of vertebrate animals considering their structure, evolution, ecology and special adaptations. Lecture, lab, and field trips. Prerequisite: an introductory course in biology. *LS*.

ZOO 250 Principles of Ecology. 3-4 cr. (Same as BOT 250) The interrelationships between living organisms and their environment; ecosystems concepts; population dynamics; community organization and distribution; and application of ecological principles to man and his environment. Lecture, lab, and field trips. Prerequisite: an introductory course in biology. *LS*.

ZOO 260 Genetics. 3 cr. (Same as BOT 260) Laws of variation and heredity and their modification by environment and chromosome behavior. Lecture and lab. Prerequisite: an introductory course in biology. *LS*.

ZOO 277 Ornithology. 3 cr. Identification, life histories, and habits of birds, with emphasis on local species. Lecture, lab, and field trips. Prerequisite: an introductory course in biology. *LS*.

ZOO 291 Special Topics In Zoology. 1-3 cr. (Same as BOT 291) Designed to cover topics in biology not ordinarily covered in other classes. Prerequisite: consent of instructor. *EL*.

ZOO 299 Reading and Research in Zoology. 1-3 cr. (Same as BOT 299) Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation, and to give practical experience in scientific problem-solving. Prerequisite: consent of instructor. *EL*.

ZOO 430 Comparative Anatomy of Vertebrates. 5 cr. An outline of the basic vertebrate anatomical systems and a consideration of variations, using functional, embryological, and evolutionary approaches. Lecture, and lab dissection and study of representative vertebrate material. Prerequisite: an introductory course in zoology. *LS*.

ZOO 505 Field Zoology. 3 cr. Designed to acquaint the student with the local fauna, emphasizing taxonomy. Can be used by school teachers or liberal arts students or as a background course for advanced courses such as vertebrate ecology, fishery biology, wildlife management, entomology, forestry, and agriculture. Field trips. Prerequisite: an introductory course in biology. *EL*.

ZOO 515 Conservation of Aquatic Resources: Limnology. 2 cr. General limnology; study of lake and stream communities and their conservation. Lecture and field trips. Prerequisite: an introductory course in biology. *EL*.

ZOO 516 Laboratory Conservation of Aquatic Resources: Limnology. 2 cr. Biological, physical, and chemical characteristics and their interrelationships in Wisconsin lakes and streams. Lab and field trips. Prerequisite: Zoology 515 or concurrent registration in Zoology 515. *LS*.

BUSINESS AND ECONOMICS

BUSINESS

BUS 101 Business and its Environment. 2-3 cr. Introduction to the role of business in the modern political, social, and economic environments: describes career opportunities. *EL*.

BUS 110 Personal Finance. 2-3 cr. A study of personal financial management. Examines the financial problems and consequent financial decisions required of individuals in our economy. Subjects covered are family budgeting, consumer buying decisions, borrowing, insurance, personal real estate, income taxation, investments and estate planning. Prerequisite: none. *EL*.

Bus 194 Career and Life Planning. 2 cr. This course will enable students to develop career goals and lay out a path for achieving these goals. Students will examine their personal interests, aptitudes, values, decision making skills, academic plans, and career awareness. This personal, educational, and occupational information will then be organized and translated into an individualized course of action. Integration of career goals with current and future college coursework will be stressed. *EL*.

BUS 201 Introductory Accounting. 4 cr. Fundamental principles, terminology, techniques and practices; books, accounts, and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and corporate accounts. Prerequisite: none. Open to second semester freshmen. *EL*.

BUS 202 Intermediate Accounting. 4 cr. Accounting theory principles, concepts and procedures as applied to balance sheet and income statement accounts, Presentation and interpretation of financial statements; problems of terminology, valuation and analysis are included. Prerequisite: Bus. 201. *EL*.

BUS 204 Managerial Accounting. 3 cr. Interpretation and use of accounting reports by management in planning, coordinating and controlling business activities, presentation, analysis and interpretation of financial data, internal control and reports to management, cost-volume profit relationships, budgets, costs and managerial decision. Prerequisite: Business 201. *EL*.

BUS 210 Effective Business Communications. 2-3 cr. Study and practice of the techniques for achieving clarity, brevity, and effectiveness in business writing. Planning, preparation, criticizing of business letters, memoranda, short and long reports, and manuals of procedure. Prerequisite: English 102. *EL*.

BUS 243 Economics and Business Statistics. 3 cr. (Same as ECO 243) Elementary theory and techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares. Prerequisite: one semester of calculus or sophomore standing or consent of instructor. *EL*.

BUS 297 Special Topics. 1-3 cr. Prerequisite: consent of instructor. *EL*.

BUS 299 Independent Studies. 1-3 cr. Prerequisite: consent of instructor. *EL*.

ECONOMICS

ECO 101 Survey of Economics. 3-4 cr. A study of the economic system, with emphasis on problems and policies. Among the subjects included are markets and prices, income distribution, business fluctuation, economic growth and comparative economic systems. Not open for credit to students with credit in Economics 203 or Economics 204. If taken prior to Economics 203 or Economics 204, credit for Economics 101 will not be applicable toward the associate degree. *SS*.

ECO 203 Economics—Macro. 3-4 cr. The emphasis of the course is on macro analysis and covers such areas as national income, commercial banking, business fluctuations, monetary and fiscal policies and economic growth. Designed for students who desire a basic one-year course (with Economics 204) in economics. Sophomore standing or consent of instructor recommended. *SS*.

ECO 204 Economics—Micro. 3-4 cr. Emphasizes the micro economic approach concerning households, firms, and market structures with a focus on price determination and distribution of income. Foreign trade and international financial institutions are included. Sophomore standing or consent of instructor recommended. *SS*.

ECO 230 Money and Banking. 3 cr. A study of the structure and operations of the commercial banking system and other financial institutions, central banking and monetary policy, monetary systems and their developments; theories of money, income and prices and their economic effect on the economy, impact of fiscal policy and international finance on monetary policy. Prerequisite: Economics 101 or 203 or equivalent. *SS*.

ECO 243 Economics and Business Statistics. 3 cr. (Same as BUS 243) Elementary theory and techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares. Prerequisite: one semester of calculus or sophomore standing or consent of instructor. *EL*.

ECO 250 Government and Business. 3 cr. A survey of government activities affecting business: legal and economic problems in the control of competitive practices, regulation of business, public expenditures and subsidies, and public enterprise. Stresses government regulation of business and anti-trust policies. Prerequisite: Economics 204. *SS*.

ECO 271 Economic Development of the Middle East. 3 cr. Economic aspects of the struggle for a rising standard of living and stability in the Arab countries, Turkey, Iran and Israel: scarcity, choice, efficiency and growth. Comparison of the structure of economic organization and balance of payments. Case studies of development policies in the last two decades. Prerequisite: Economics 101, 203 or 204. *SS*.

ECO 297 Special Topics. 1-3 cr. Prerequisite: Consent of instructor. *SS*.

ECO 299 Independent Studies. 1-3 cr. Prerequisite: Consent of instructor. *SS*.

CHEMISTRY

CHE 100 Foundations of Chemistry. 1-3 non-degree cr. Emphasizes fundamental chemical concepts may be taken prior to or concurrently with CHE 125 or CHE 145. Prerequisite: none. Intended for students who have had no previous chemistry, or have a limited background in chemistry. *Course credit will not count toward degree*.

CHE 124 Natural Science Chemistry. 4 cr. Non-mathematical look at our chemical world of drugs, pollutants, household chemicals, food additives, etc. Lectures and laboratories. Not a suitable prerequisite for professional chemistry courses. *LS*.

CHE 125 Introductory Chemistry. 5 cr. A one semester introductory course in college chemistry with special emphasis on organic chemistry. Consists of lectures, discussion and laboratories. Primarily for students whose programs require only Chemistry 125 or the 125-203 combination. Concurrent registration in Chemistry 100 may be required. The student may not count both Chemistry 125 and 145 toward fulfilling laboratory science requirement for the Associate Degree. Prerequisite: none; however a working knowledge of algebra is recommended. *LS*.

CHE 145 General Chemistry. 5 cr. The first semester of a one year course in college chemistry. Consists of lectures, discussions, and laboratories. For students whose programs require a year of college chemistry or who plan to take advanced courses in chemistry. Concurrent registration in Chemistry 100 may be required. The student may not count both Chemistry 125 and 145 toward fulfilling the laboratory science requirement for the Associate Degree. Prerequisite: demonstrated competency at the MAT 105 level or concurrent registration in MAT 105. *LS*.

CHE 155 General Chemistry. 5 cr. Continuation of Chemistry 145. Consists of lectures, discussions, and laboratories. Prerequisite: Chemistry 145. *LS*.

CHE 203 Survey of Biochemistry. 3 cr. An elementary course on the chemical makeup and metabolic processes of living organisms. For non-science majors. Three hours of lectures per week. Chemistry 125 and 203 together constitute a year course with emphasis on organic and biological chemistry for non-science majors. Prerequisite: Chemistry 125 or Chemistry 145 with consent of instructor. *EL* if taken alone; *LS* if combined with CHE 211.

CHE 211 Biochemistry Laboratory. 1 cr. Laboratory to accompany Chemistry 203. Three hours of laboratory per week. This course is highly recommended for degree nursing students. Prerequisite: Chemistry 203 or concurrent registration. *LS*.

CHE 214 Physiological Chemistry. 3 cr. Lectures and demonstrations on elementary aspects of organic and physiological chemistry; provided for students who have not had organic chemistry. For students interested in physical therapy. Prerequisite: Chemistry 125 or Chemistry 145 with consent of instructor. *EL*.

CHE 233 Nutrition—A Biochemical Approach. 3 cr. A one semester course primarily for students enrolled in certain premedical programs where a course in elementary nutrition is needed. Prerequisite: Chemistry 125. *EL*.

CHE 244 Quantitative Analysis. 4 cr. A course in the fundamentals of quantitative analysis. Two hours of lecture-discussion and 6-8 hours of laboratory per week. Prerequisite: Chemistry 155. *LS*.

CHE 272 Special Problems. 2 cr. An advanced study of the numerical problems of chemistry. Two hours of lecture-discussion per week. Recommended for all students who plan to take further courses in chemistry. Prerequisite: Chemistry 155 or concurrent registration. *EL*.

CHE 290 Special Topics in Chemistry. 1-3 cr. No prerequisite, but students must obtain the consent of the instructor prior to registration. *EL*.

CHE 299 Independent Study in Chemistry. 1-3 cr. No prerequisite, but students must obtain the consent of the instructor prior to registration. *EL*.

CHE 343 Introductory Organic Chemistry. 3 cr. The first semester of a year course in organic chemistry. Three hours of lecture per week. Prerequisite: Chemistry 155. *EL* if taken alone; *LS* if combined with CHE 352.

CHE 352 Introductory Organic Chemistry Laboratory. 2 cr. Six-eight hours of laboratory per week. Prerequisite: Chemistry 343 or concurrent registration. *LS*.

CHE 363 Intermediate Organic Chemistry. 3 cr. Continuation of Chemistry 343. Three hours of lecture per week. Prerequisite: Chemistry 343. *EL*.

Not all courses listed here are offered at all centers. See your campus timetable or the course offerings.

COMMUNICATION ARTS

COM 100 Applied Journalism. 1 cr. Practical application of the principles of observing, reporting, writing and editing, photography and management for journalism publications or newscasts. Students work for a campus publication or broadcasting project and submit copies and reports of their work to the instructor for evaluation and critique. *EL*.

COM 101 Introduction to Interpersonal Communication. 3 cr. A course aimed at increasing the student's awareness of how he/she and others communicate and at improving communication with others in one-to-one and small group situations. 0mEL.

COM 102 Forensics Laboratory. 1 cr. Participation in forensics activities, including but not limited to oral interpretation, oratory, extemporaneous speaking, after-dinner speaking, impromptu speaking, debate, discussion, play reading. Preparation of special programs. It is possible to register in more than one section with consent of instructor.

Section 1 Discussion-Debate	1 cr. <i>EL</i> .
Section 2 Rhetoric	1 cr. <i>EL</i> .
Section 3 Interpretation	1 cr. <i>EL</i> .

COM 103 Introduction to Public Speaking. 3 cr. Study of the principles and techniques of effective speech and an application of these fundamentals in a variety of selected communication experiences. *EL*.

COM 130 Introduction to Theatre. 3 cr. A study of theater as an art form. Emphasis is on the role of

the audience and their understanding and appreciation of the nature of theater, important plays, dramatic styles, and the elements of a theatrical production. *HU*.

COM 131 Theatre Laboratory. 1 cr. Participation in theatrical production activities including directing, management, technical production, lighting, stage design, costuming, make-up, acting, and theatre management. It is possible to register in more than one section with consent of instructor.

Section 1 Acting	1 cr. <i>EL</i> .
Section 2 Technical production	1 cr. <i>EL</i> .
Section 3 Theater management	1 cr. <i>EL</i> .

COM 150 Introduction to Film. 3 cr. Study of the nature and development of film as a distinctive medium of communication, and as an art form. *HU*.

COM 160 Speech and Human Behavior. 3 cr. The study of people as complex communicators who through physical, behavioral and linguistic signs send and receive messages in a variety of social and cultural interactions. *HU*.

COM 201 Introduction to Mass Communication. 3 cr. A survey course which examines mass media practices, theories and research. *SS*.

COM 202 Mass Communication and Contemporary Issues. 3 cr. Analysis of contemporary public issues as reported in the mass media with emphasis on news and feature content of radio, television, newspapers and other periodicals. Techniques of content analysis and survey research. Specific issues for study to be determined at the time the course is offered. Prerequisite: COM 201 or consent of instructor. *EL*.

COM 203 News and Informational Writing. 3 cr. Instruction and practice in written communication of factual materials, under direct guidance of instructor. Course treats writing for news media, but spends time on procedures and techniques which are basic for all informational writing. Prerequisite: typing proficiency recommended and the satisfactory completion of English 101, or equivalent documentation of language skills. *EL*.

COM 204 News Reporting. 3 cr. Emphasis on the gathering of news and interviewing. Field work in the community. Typing proficiency recommended and the satisfactory completion of English 101, or equivalent documentation of language skills. Prerequisite: Comm. Arts 203 or consent of instructor. *EL*.

COM 220 Introduction to Techniques of Radio and Television. 3 cr. Principles and practices of contemporary radio and television production and programming. *HU*.

COM 230 Introduction to Oral Interpretation. 3 cr. Appreciation of literature through critical analysis and the oral re-creation of literary materials. *EL*.

COM 232 Introduction to Acting. 3 cr. Exploration of the actor's self through exercises and improvisations to enhance concentration of attention, observation, imagination and sensory responsiveness. *EL*.

COM 234 Introduction to Stagecraft. 3 cr. Theories and techniques of stagecraft, such as set design and construction, scene painting, stage lighting, costuming, and make-up. *EL*.

COM 266 Group Discussion. 3 cr. Study of the structure and dynamics of small group decision

making. Includes critical and creative problems in group interaction processes. *HU*.

COM 267 Introduction to Parliamentary Procedure. 1-2 cr. Theory and practice of parliamentary procedure, conducting business meetings, forming organizations, and drawing up constitutions and by-laws. *HU*.

COM 268 Persuasion. 3 cr. Principles and methods of persuasion, with practice in the preparation and delivery of various types of persuasive speeches. *HU*.

COM 298 Topics in Speech and Dramatic Arts. 1-3 cr. The nature and subject of this course will be announced in the timetable. Prerequisite: May be determined by the individual instructor. *EL*.

COM 299 Independent Studies. 1-3 cr. Readings, reports, papers, or projects to be determined by the individual instructor. Prerequisite: an introductory course in the area and consent of instructor. *EL*.

COM 348 Creative Dramatics for Children. 3 cr. Theory and function of creative dramatics and applications in elementary education. *HU*.

COM 349 Children's Theatre Production. 3 cr. Methods of directing, designing, and producing plays for the child audience. Examination of scripts, and study of techniques in adapting children's literature for the stage. *HU*.

COMPUTER SCIENCE

CPS 100 Computers and Society. 1-3 cr. Study of the functions of computers, their applications and the resultant social changes, both desirable and undesirable. Consideration of the value systems that are threatened as computer technology continues to expand. No programming required. *EL*.

CPS 101 Computer Orientation. 1 cr. An introduction to the campus computing set-up. Emphasis on what computers can do; using computers rather than programming them. *EL*.

CPS 110 Introduction to Computer Science (Basic). 3 cr. How computers work, communicating with computers, areas of application and significance, simple Algebraic Language programming, elementary data processing and problem solving. Instruction and significant experience in BASIC with possible exposure to a second language. Prerequisite: intermediate level high school mathematics or a course in college mathematics. *EL*.

CPS 111 Introduction to Computer Science (Fortran). 3 cr. Identical to CPS 110 except Fortran is the primary language. *EL*.

CPS 120 Introduction to Data Processing. 3 cr. A study of the methods and concepts of gathering data and converting it into information. Emphasis will be on computer data processing and will include such topics as: program preparation and documentation, time sharing, storage and information retrieval, computer arithmetic and data representation, BASIC, FORTRAN, and COBOL programming. Prerequisite: MAT 110 or MAT 124 or equivalent. *EL*.

CPS 210 Algebraic Language/Programming (BASIC). 3 cr. Construction of algorithms; flow-charting and documentation; instruction and extensive experience in the use of a procedure-oriented language (BASIC) emphasizing modular programming techniques; optional topics. Prerequisites: one of the following must be met: (a) completion of or concurrent registration in MAT 211, or MAT 221; (b) previous programming experience; (c) consent of instructor. *EL*.

CPS 211 Algebraic Language Programming (FORTRAN). 3 cr. Identical to CPS 210 except FORTRAN is the language covered. *EL*.

CPS 213 Algebraic Language Programming (PASCAL). 3 cr. Identical to CPS 210 except PASCAL is the language covered. *EL*.

CPS 231 Numerical Methods. 2 cr. An introduction to numerical analysis designed for engineers, mathematicians, physicists, and computer scientists. Topics include: evaluation of functions, finding zeroes of functions, quadrature, numerical solution of linear algebraic equations and methods for ordinary differential equations. Prerequisites: MAT 222 and one of the following CPS 210, 211 or 213. *EL*.

CPS 250-260 Programming in Computer Language. 2-3 cr. These courses are designed to teach a new programming language to a student who already has experience in programming. The number of credits is determined by the depth of study in the particular language. Note: These courses may not be taken for credit by a student whose previous programming experience lies in that particular language. Prerequisite: CPS 110-111 or CPS 210-211 or consent of instructor. *EL*.

CPS 250 BASIC; CPS 251 FORTRAN; CPS 252 COBOL; CPS 253 PASCAL; CPS 254 PL/1; CPS 255 APL; CPS 260 Assembly language. *Electives.*

CPS 270 Data Structures. 3 cr. An introduction to the data structures used for representing information involved in problem solving. Topics covered include stacks, queues, linked lists, trees, graphs, searching, sorting, hash tables, and dynamic storage allocation. Prerequisite: CPS 210, 211, or 213. *EL*.

CPS 291 Special Topics. 1-3 cr. In depth treatment of subjects introduced in CPS 110, CPS 210 or other courses. Choice of topics depends on student interest, staff and equipment availability. Typical topics include: file handling, operating systems, social implications, simulation, management tools, specialized languages, current technology, numerical methods, artificial intelligence, digital logic. Prerequisite: CPS 110, CPS 210 or consent of instructor. *EL*.

CPS 299 Independent Study in Computer Science. 1-3 cr. *EL*.

ECONOMICS

See Business and Economics

EDUCATION

EDU 101 Orientation to Public Education. 2 cr. An overview of the cultural, historical, philosophical, and psychological bases for public education in

American society. An exploration of the aims of education in American public schools with the implications for teachers, curricula, and physical facilities. Lab experiences are required in connection with this course. *EL*.

EDU 200 Field Experience in Education. 2 cr. 5 hours per week of off-campus experience involving active participation in the program at an educational institution. May be taken only with concurrent registration in PSY 203 for 1 credit or a similar seminar experience involving an average of 2 hours/week of on-campus instruction covering concepts related to human development and learning, social/cultural influences, and social institutions, as they apply to the educational process. *EL*.

EDU 251 Physical Education Field Experience. 2 cr. (Same as EDU 200, but carries different number for physical education majors.) Active involvement in the learning activities of an educational setting (i.e. school, agency, institution) which offers a physical education program plus participation in three evening seminars. Placement shall involve five hours of participation per week. Prerequisite: none. *EL*.

EDU 283 Literature for Children. 3 cr. Folk literature including the fairy tale, fable, myth, epic and tall tales. Emphasis on modern fanciful and realistic fiction. Traditional and modern poetry. Ways of presenting literature to children. *EL*.

EDU 300 The Exceptional Child. 3 cr. Study of the definition, classification, and etiology of conditions creating special education needs. Topics reviewed include: intellectually retarded, gifted, emotionally disturbed, and the speech, auditorily, visually, orthopedically, and neurologically impaired. Prerequisite: PSY 201 or 202. 560 recommended. *EL*.

EDU 330 Educational Psychology. 3-4 cr. A study of the developmental process in children and psychological principles of teaching and learning. Emphasis will be placed on understanding children, their developmental stages, their growth and maturation—social, emotional, physical, intellectual. Attention will be directed toward the nature and conditions of learning, including the major types of learning, critical aspects of learning, and the problems encountered in fostering and directing learning. Prerequisite: PSY 201 or PSY 202. *EL*.

ENGINEERING

EGR 100 Engineering Freshman Orientation. 1 cr. Discussion of what is actually done by engineers in the various fields. Also covers professional ethics, responsibilities to society, environmental technology assessment, and professional registration. May be taken by non-engineering majors. Prerequisites: None. *EL*.

EGR 106 Technical Communications. 3 cr. This course will cover graphical, oral, and written presentations. The course would be useful to any discipline requiring report writing or data analysis. *EL*.

ENGINEERING GRAPHICS

GRA 102 Elements of Descriptive Geometry. 3 cr. Orthographic projection and its application to the analysis and solution of three-dimensional problems involving points, lines, planes and solids; axonometric projections for pictorial representation with engineering applications. The class meets six hours each week to allow the student to do most of the drawing under the supervision of the instructor. Prerequisite: intermediate math preparation or consent of instructor. *EL*.

GRA 113 Introduction to Design Methods and General Engineering Graphics. 3 cr. Methodology of developing product and system solutions to design problems. Emphasis on techniques of problem identification, ideation, optimization, implementation, and technical communication. Application of methodology to individual or group design project. Advanced principles of projection and graphical analysis, sectional views, dimensioning, assembly drawings, mechanisms, graphs, and topography. The class meets six hours each week to allow the student to do most of the drawing under the supervision of the instructor. Prerequisite: Engineering Graphics 102 or consent of instructor. *EL*.

ENGINEERING MECHANICS

MEC 201 Statics. 3 cr. Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of areas, and friction. The course will serve the requirements of the several engineering curricula. Prerequisite: Mathematics 221. *EL*.

MEC 202 Dynamics. 3 cr. Kinematics, force-mass-acceleration relations, work and energy, impulse and momentum, moments of inertia of mass. This course will serve the requirements of the several engineering curricula. Prerequisites: Engineering Mechanics 201 and Mathematics 222. *EL*.

MEC 203 Strength of Materials. 3 cr. Stress and strain, torsion, bending of beams, compound stresses, principal stresses, deflections of beams, statically indeterminate members, columns, elastic buckling, fatigue, creep, impact, concrete properties. Lab. Prerequisite: Engineering Mechanics 201. *LS*.

ENGLISH AND LITERATURE

ENG 101 Composition I. 3 cr. A writing course that focuses on coherent development of paragraphs and short essays; stressing proficiency in sentence structure, grammar, diction, and punctuation. (Completion of this course will satisfy the prerequisites for English 102 and English 200, in lieu of sufficiently high placement test scores. Not open to students eligible for English 102 because of their test scores, except with consent of campus English faculty.) *RC*.

ENG 102 Composition II. 3 cr. A rhetoric course that focuses on writing which presents information and ideas clearly and effectively with emphasis on the essay and the documented source paper. Prerequisite: English 101, or sufficiently high place-

ment test scores, or consent of the campus English faculty based on demonstrated writing ability. *RC.*

ENG 103 Critical Writing. 3 cr. Studying and writing about various types of literature. Develops the ability to write critical, analytical, and explicative papers about literature. Prerequisite: English 102, or 201, or consent of the campus English faculty. *EL*

ENG 120 Introduction to the English Language. 3 cr. A beginning course in the study of the English language, concerned with such subjects as the history and structure of the language, development of dictionaries, changing meanings of words, and types of grammar. (An elective open to freshman, but not a substitute for English 101, 102, or 103.) *HU/LI*

ENG 200 Introduction to Literature. 3 cr. Intensive analysis of literature, including poetry, drama, and fiction, using representative types, primarily from several periods of English and American literature. Prerequisite: English 101 (or sufficiently high placement test scores) or English 102, or consent of the campus English faculty. *HU/LI*

ENG 201 Intermediate Composition. 3 cr. A course devoted to the theory and practice of writing prose that presents information and ideas and is intended to inform and/or persuade. Emphasis will be placed on coherent organization, clear and forceful phrasing, logical thinking, and other aspects of effective communication. Prerequisite: English 102 or English 103 or consent of the campus English faculty. *EL*

ENG 203 Creative Writing I. 3 cr. Chiefly devoted to writing and studying one or more of the following: fiction, poetry, and drama. Prerequisite: English 102 or English 103 or consent of the campus English faculty. *EL*

ENG 204 Creative Writing II. 3 cr. A continuation of English 203. Prerequisite: English 203 or consent of the campus English faculty. *EL*

ENG 205 English Literature. 3 cr. A study of the nature of British literature through the examination of representative literary works by major British authors. (Not open to students who have received credit for English 213 or 214.) Prerequisite: English 200 or English 103, or consent of the campus English faculty. *HU/LI*

ENG 209 Twentieth Century Literature. 3 cr. A study of the nature of twentieth century literature through the examination of representative literary works by significant authors, primarily British and American, of the twentieth century. Prerequisite: English 200 or English 103, or consent of the campus English faculty. *HU/LI*

ENG 211 American Literature. 3 cr. A study of the nature of American literature through the examination of representative literary works by major American authors. (Not open to students who have received credit for English 215 or 216.) Prerequisite: English 200 or English 103, or consent of the campus English faculty. *HU/LI*

ENG 213 English Literature Before 1798. 3 cr. A study of the development of British literature before 1798 through a survey of representative literary works. (Not open to students who have received credit for English 205.) Prerequisite: English 200 or English 103, or consent of the campus English faculty. *HU/LI*

ENG 214 English Literature After 1798. 3 cr. A study of the development of British literature after 1798 through a survey of representative literary works. (Not open to students who have received credit for English 205.) Prerequisite: English 200 or English 103, or consent of the campus English faculty. *HU/LI*

ENG 215 American Literature Before 1865. 3 cr. A study of the development of American literature before 1865 through a survey of representative literary works. (Not open to students who have received credit for English 211.) Prerequisite: English 200 or English 103, or consent of the campus English faculty. *HU/LI*

ENG 216 American Literature After 1865. 3 cr. A study of the development of American literature after 1865 through a survey of representative literary works. (Not open to students who have received credit for English 211.) Prerequisite: English 200 or English 103, or the consent of the campus English faculty. *HU/LI*

ENG 217 World Literature Before 1700. 3 cr. Selected masterpieces of world literature from ancient time to the end of the seventeenth century. Prerequisite: English 200 or English 103, or the consent of the campus English faculty. (Not open to students who have received credit for English 219.) *HU/LI*

ENG 218 World Literature After 1700. 3 cr. Selected masterpieces of world literature from the end of the seventeenth century to the present. Prerequisite: English 200 or English 103, or the consent of the campus English faculty. (Not open to students who have received credit for English 219.) *HU/LI*

ENG 219 World Literature. 3 cr. A study of selected masterpieces of world literature. Prerequisite: English 200 or English 103, or consent of the campus English faculty. (Not open to students who have received credit for English 217 or English 218.) *HU/LI*

ENG 227 Introduction to Shakespeare. 3 cr. A study of representative plays and sonnets. Prerequisite: six credits of literature or consent of the campus English faculty. *HU/LI*

ENG 251 Studies in Dramatic Literature. 3 cr. An exploration of some aspect of drama or the theory of drama, of the internal history of the genre or the distinctive character of the mode, and its application in practical criticism to an appropriate body of primarily English and American literature. Prerequisite: three credits of literature or consent of the campus English faculty. *HU/LI*

ENG 253 Studies of Narrative Literature. 3 cr. An exploration of some aspect, problem, or distinctive variety of narrative or the theory of narrative, in such forms as the novel, the short story, the epic, the romance, and its application in practical criticism to an appropriate body of primarily English and American literature. Prerequisite: three credits of literature or consent of the campus English faculty. *HU/LI*

ENG 255 Studies in Poetry. 3 cr. An exploration of some aspect of poetic theory and practice, generally in terms of the shorter verse forms, and its application in practical criticism to an appropriate body of primarily English and American literature. Prerequisite: three credits of literature or consent of the campus English faculty. *HU/LI*

ENG 290 Special Topics in Literature. 1-3 cr. Designed to cover topics which cannot be accommodated in usual course format or by other courses. Topics will be specified in campus timetable. Prerequisite: consent of instructor. *HU/LI*

ENG 297 A Theme in English and/or American Literature. 3 cr. This theme varies from time to time and may be, for example, philosophical, social, political, or psychological. Prerequisite: three credits of literature or consent of the campus English faculty. *HU/LI*

ENG 298 A Figure or Figures in English and/or American Literature. 3 cr. The figure or figures may be one writer, such as Milton, or a group of writers, such as English Romantic poets of the nineteenth century or Black writers of twentieth century America. Prerequisite: six credits of literature or consent of the campus English faculty. *HU/LI*

ENG 299 Independent Study. 1-3 cr. Prerequisite: consent of the instructor. Program must be approved by the instructor and the UW-Centers' department chairman. *HU/LI*

FOREIGN LANGUAGE

FRENCH

FRE 101 First Semester French. 4 cr. For students who have had no previous training in the language. Emphasis on oral practice, grammar and reading. Field trip may be required. *EL*

FRE 102 Second Semester French. 4 cr. Continuation of French 101. Prerequisite: French 101 or one year of high school French. Field trip may be required. *EL*

FRE 118 Practical Spoken French. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. Not part of the sequence of required foreign language courses. Prerequisite: consent of instructor. *EL*

FRE 119 Practical Spoken French. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. This course is not part of the required foreign language sequence. Prerequisite: French 118. *EL*

FRE 201 Third Semester French. 4 cr. Intensive and extensive reading, grammar review, elementary composition and development of oral facility. Prerequisite: one year of college French (or equivalent) or two years of high school French. Field trip may be required. *EL*

FRE 202 Fourth Semester French. 4 cr. A continuation of French 201. Prerequisite: three semesters (or equivalent) of college French or three years of high school French. Field trip may be required. *HU*

FRE 215 Elementary Conversation and Composition. 1-2 cr. May be taken concurrently with FRE 201 or by itself. For persons desiring further development of oral and writing skills related to everyday topics. Prerequisite: FRE 102 or equivalent. Carries no retroactive credits. *HU*

FRE 219 French for Business. 2-3 cr. Designed to acquaint the student with the vocabulary and practices of the business community. Oral and written practice in the preparation of letters and forms. Does not carry retroactive credit for work com-

pleted in high school. Prerequisite: 201 or consent of the instructor. *HU*.

FRE 221 Introduction to French Literature, Middle Ages to Eighteenth Century. 3 cr. Masterpieces in the novel, drama, poetry, and essay. Lectures, discussion, exercises in interpretation. Prerequisite: French 202 or equivalent. *HU/LI*.

FRE 222 Introduction to French Literature, Eighteenth and Nineteenth Century. 3 cr. Masterpieces in the novel, drama, poetry, and essay. Lectures, discussion, exercises in interpretation. Prerequisite: French 202 or equivalent. *HU/LI*.

FRE 223 Introduction to French Literature, Twentieth Century. 3 cr. Masterpieces in the novel, drama, poetry, and essay. Lectures, discussions, exercises in interpretation. Prerequisite: French 202 or equivalent. Recommended but not required that French 221-222 precede this course. *HU/LI*.

FRE 225 Conversation and Composition (Intermediate Level). 2-3 cr. Development of facility in oral and written French. Prerequisite: French 202 or equivalent with consent of instructor. May be taken concurrently with French 221 or French 222. *HU*.

FRE 226 Conversation and Composition (Intermediate Level). 2-3 cr. Continuation of French 225. Prerequisite: French 225 or consent of instructor. May be taken concurrently with French 221 or French 222. *HU*.

FRE 275 Masterpieces of French Literature in Translation. 3 cr. Study, in translation, of representative masterpieces of modern French literature. No foreign language credit. *HU/LI*.

FRE 276 Twentieth Century French Literature in Translation. 3 cr. Study, in translation, of selected works of twentieth century French literature. No foreign language credit. *HU/LI*.

FRE 277 Special Topics in Literature in Translation. 2-3 cr. Treats various topics in French literature in translation to be specified by the instructor in campus timetable. No foreign language credit. *HU/LI*.

FRE 291 Selected Topics in French. 2-3 cr. Prerequisite: French 202 and consent of instructor. Topic will be specified in campus timetable. *HU/LI*. (If so specified in timetable.)

FRE 299 Intermediate Independent Reading. 2-3 cr. Readings, discussions, reports, papers to be determined by individual instructor. Meetings to be arranged. Prerequisite: French 202 or equivalent and consent of instructor. *HU/LI*. (If so specified in timetable).

GERMAN

GER 101 First Semester German. 4 cr. For students with no previous knowledge of German. Emphasis on reading, oral practice and grammar. Field trip may be required. *EL*.

GER 102 Second Semester German. 4 cr. Continuation of German 101. Prerequisites: German 101 or equivalent. Field trip may be required. *EL*.

GER 118 Practical Spoken German. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. Not part of the se-

quence of required foreign language courses. Prerequisite: consent of instructor. *EL*.

GER 119 Practical Spoken German. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. This course is not part of the required foreign language sequence. *EL*.

GER 201 Third Semester German. 4 cr. Intensive reading, writing, grammar review and continued oral practice. Prerequisite: German 102 or equivalent. Field trip may be required. *EL*.

GER 202 Fourth Semester German. 4 cr. Continuation of German 201. Prerequisite: German 201 or equivalent. Field trip may be required. *HU*.

GER 215 Elementary Conversation and Composition. 2 cr. May be taken concurrently with German 201 or by itself. For persons desiring further development of oral and writing skills related to everyday topics. Prerequisite: German 102 or equivalent. *HU*.

GER 216 Elementary Conversation and Composition. 2 cr. May be taken concurrently with German 202. Prerequisite: German 215 or consent of instructor. *HU*.

GER 219 German for Business. 2-3 cr. Designed to acquaint the student with the vocabulary and practices of the business community. Oral and written practice in the preparation of letters and forms. Does not carry retroactive credit for work completed in high school. Prerequisite: 201 or consent of instructor. *HU*.

GER 221 Introduction to German Literature. 3 cr. Selected readings in a survey of German literature; discussion; transition from language study to study of literature. Also carries credit as a humanities elective. Prerequisite: German 202 or equivalent. *HU/LI*.

GER 222 Introduction to German Literature. 3 cr. Continuation of German 221. Also carries credit as a humanities elective. Prerequisite: German 221 or equivalent. *HU/LI*.

GER 225 Intermediate Composition and Conversation. 2-3 cr. Grammar review and conversation. Extensive composition practice. May be taken concurrently with German 221. Prerequisite: German 202 or equivalent. *HU*.

GER 226 Intermediate Composition and Conversation. 2-3 cr. Continuation of German 225. May be taken concurrently with 222. Prerequisite: German 225 or equivalent. *HU*.

GER 275 Periods in German Literature in Translation. 3 cr. Treats various periods and trends in German literature up to 1900. Designed for students who do not have a command of German enabling them to read works in the original but who have an interest in important epochs in German literature. Carries credit as a humanities elective. No foreign language credit. *HU/LI*.

GER 276 German Literature of the Twentieth Century in Translation. 3 cr. A study of German literature of the present century; designed for those students who do not have a command of German but wish to acquaint themselves with the most important trends in twentieth century German literature. Carries credit as a humanities elective. No foreign language credit. *HU/LI*.

GER 277 Special Topics in Literature in Translation. 2-3 cr. Treats various topics in German literature in translation to be specified by the instructor in campus timetables. Carries credit as a humanities elective. No foreign language credit. Prerequisite: none. *HU/LI*.

GER 291 Selected Topics in German. 2-3 cr. Prerequisite: German 202 and consent of instructor. Topics will be specified in campus timetable. *HU/LI*. (If so specified in timetable).

GER 299 Independent Reading. 1-3 cr. An independent reading course which helps advanced students fulfill requirements for a major in German upon transferring to a degree-granting institution. Content to be determined by the instructor in counsel with the student. *HU/LI*.

SPANISH

SPA 101 First Semester Spanish-Elementary Spanish. 4 cr. Spanish grammar, elementary reading, oral practice and cultural background. For students who have had no Spanish. Field trip may be required. *EL*.

SPA 102 Second Semester Spanish-Elementary Spanish. 4 cr. A continuation of Spanish 101. Prerequisite: Spanish 101 or one year of high school Spanish. Field trip may be required. *EL*.

SPA 118 Practical Spoken Spanish. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. Not part of the sequence of required foreign language courses. Prerequisites: consent of instructor. Field trip may be required. *EL*.

SPA 119 Practical Spoken Spanish. 1-2 cr. Emphasis on the spoken language in everyday contexts. Carries elective credit only. This course is not part of the required foreign language sequence. *EL*.

SPA 201 Third Semester Spanish-Intermediate Level. 4 cr. Grammar review; intensive class reading; study of vocabulary, idioms and syntax; oral and composition practice. Prerequisite: Spanish 102 or two years of high school Spanish or equivalent. Field trip may be required. *EL*.

SPA 202 Fourth Semester Spanish-Intermediate Level. 4 cr. A continuation of Spanish 201. Prerequisite: Spanish 201 or three years of high school Spanish. With department consent, exceptional students may be permitted to take Spanish 202 and Spanish 225 concurrently. Field trip may be required. *HU*.

SPA 219 Spanish for Business. 2-3 cr. Designed to acquaint the student with the vocabulary and practices of the business community. Oral and written practice in the preparation of letters and forms. Does not carry retroactive credit for work completed in high school. Prerequisite: 201 or consent of instructor. *HU*.

SPA 221 Introductory Survey of Spanish Literature. 3 cr. Introduction to the study of Spanish literature; readings, discussions, literary history. Eighteenth-Twentieth centuries. Prerequisite: Spanish 202 or equivalent. *HU/LI*.

SPA 222 Introductory Survey of Spanish Literature. 3 cr. Twelfth-Seventeenth centuries. Prerequisite: Spanish 202 or equivalent. *HU/LI*.

SPA 225 Intermediate Conversation and Composition. 2-3 cr. Emphasis on oral and composition practice. Prerequisite: Spanish 202 or equivalent. *HU*.

SPA 226 Intermediate Conversation and Composition. 2-3 cr. A continuation of Spanish 225. Prerequisite: Spanish 225 or equivalent. *HU*.

SPA 236 Latin-American Culture and Civilization. 3 cr. Lectures and readings in English on the art, music, architecture, political, social and economic problems of Latin America from Pre-Columbian times to the present. No knowledge of Spanish required. Open to all freshmen and sophomores. Elective or humanities credit only; no foreign language credit. *HU*.

SPA 266 Masterpieces of Latin-American Literature in Translation. 3 cr. Study, in translation, of representative masterpieces of modern Latin-American literature. No foreign language credit. *HU/LI*.

SPA 275 Masterpieces of Spanish Literature in Translation. 3 cr. Presentation of the culture of the Spanish people, and its relation to that of Western Europe and America, through study of Spanish literary masterpieces. No foreign language credit. *HU/LI*.

SPA 277 Special Topics in Literature in Translation. 2-3 cr. Treats various topics in Spanish literature in translation to be specified by the instructor in the campus timetable. No foreign language credit. *HU/LI*.

SPA 291 Selected Topics in Spanish. 2-3 cr. Prerequisite: Spanish 202 and consent of instructor. Topics will be specified in campus timetable. *HU/LI*. (If so specified in timetable).

SPA 299 Intermediate Independent Reading. 2-3 cr. For exceptional students in lieu of a regular course. Readings, discussions, reports, papers to be determined by individual instructor. Meetings to be arranged. Prerequisite: Spanish 202, or equivalent, and consent of instructor. *HU/LI*. (If so specified in timetable.)

GEOGRAPHY

GEO 101 Introduction to Cultural Geography. 3-4 cr. An examination of world distribution patterns of population, settlement and cultural forms and their causal relationships. *SS*.

GEO 110 World Regional Geography. 3-4 cr. Introduction to cultural geography through the study of representative and significant regions and nations. *SS*.

GEO 115 Economic Geography. 3-4 cr. Analysis of location of population and the distribution and character of the leading global economic activities: agriculture, fishing, forestry, mining, manufacturing, transportation and trade. Field trips. *SS*.

GEO 120 Survey of Physical Geography. 3-4 cr. Characteristics and world distribution of physical factors which in combination form the natural environment: elements of weather and climate, climatic types, earth materials, landforms and earth re-

sources. Two hours of lab per week. Field trips. May not be taken for credit by students who have had Geography 123 or 124. *LS*.

GEO 121 Atmospheric Environment of Humankind. 2 cr. The interaction of humans and their societies with the atmospheric environment. *EL*.

GEO 123 Physical Geography: Weather and Climate. 4-5 cr. The form of the earth; earth-sun relationships; elements of climate; characteristics, distribution, and significance of climatic types; the seas; natural vegetation and soils. Lab and field trips. *LS*.

GEO 124 Physical Geography: Landforms. 4-5 cr. Introduction to maps; characteristics, distribution, and significance of landform types; the continental margins and the sea floors; water resources of the land; and mineral resources. Lab and field trips. *LS*.

GEO 125 Survey of Physical Geography. 3 cr. Characteristics and world distribution of physical factors which in combination form the natural environment; elements of weather and climate, climatic types, earth materials, landforms and earth resources. May not be taken for credit by students who have had Geography 123 or 124. *EL*.

GEO 130 Human Impact on the Environment. 3-4 cr. A natural science course describing the alteration of the physical environment with the resulting effects on air, water, soils, vegetation, animal life, and on humans. Included is the role of humankind in the development of new plants and animals. (Laboratory may be elected for the fourth credit.) Field trips. 3 cr. *EL* or 4 cr. *LS*.

GEO 277 Geography of World Energy. 3 cr. An analysis of traditional and innovative energy resources. *SS*.

GEO 291 Geographic Field Study. 1-6 cr. For exceptional students in lieu of a regular course. Prerequisite: sophomore standing and consent of instructor. *EL*.

GEO 297 Special Topics in Geography. 1-3 cr. The topics selected in this course will depend on student interest and special competencies of available staff. Prerequisite: consent of instructor. *EL*.

GEO 299 Independent Study. 1-3 cr. Individual study under the supervision of an instructor. Prerequisite: consent of instructor. *EL*.

GEO 300 Population: World Survey. 3-4 cr. Contrasts in numbers, densities and qualities of population with emphasis on regional implication. Prerequisite: one semester of college work. *SS*.

GEO 324 Middle East and North Africa. 3 cr. Description and analysis of the physical and cultural landscapes of the Middle East and North Africa. Prerequisite: one semester of college work. *SS*.

GEO 341 The United States and Canada. 3 cr. Description and analysis of the physical and cultural landscapes of the United States and Canada. Prerequisite: one semester of college work. *SS*.

GEO 342 Geography of Wisconsin. 3 cr. The physical features, resources, population, land utilization and economic development of the state. Field trips. Prerequisite: one semester of college work. *SS*.

GEO 347 Middle America. 3 cr. Description and analysis of the physical and cultural landscapes of

Mexico, Central America and the West Indies. Prerequisite: one semester of college work. *SS*.

GEO 348 South America. 3 cr. Description and analysis of the physical and cultural landscapes of South America. Prerequisite: One semester of college work. *SS*.

GEO 349 Northwestern Europe. 3 cr. Description and analysis of the physical and cultural landscapes of Northwestern Europe. Includes the British Isles, Scandinavian countries, Low countries, France, Germany, Switzerland and Austria. Prerequisite: one semester of college work. *SS*.

GEO 350 Environmental Conservation. 3-4 cr. Problems arising from human use of earth resources. Principles of management that make for a continuation of natural resource adequacy. Emphasis on the United States. *Geography 350 satisfies state requirements for certification for education majors.* Prerequisite: One semester of college work. Field trip required. *SS*.

GEOLOGY AND METEOROLOGY

GEOLOGY

GLG 100 Survey of Geology. 3 cr. A brief study of minerals, rocks, fossils, geologic maps, and the processes which create and modify the surface and subsurface features of the earth. Field trips. Not open to those who have had Geology 101, 102. *EL*.

GLG 101 Physical Geology. 4-5 cr. An introduction to the study of the planet earth and its place in the universe, the processes in operation above, on and beneath its surface, and the relationship of people with the resulting geologic environment. Lab includes the study and classification of minerals and rocks as well as the interpretation of topographic and geologic maps. Field trips. Not open to those who have had Geology 100. *LS*.

GLG 102 Historical Geology. 4-5 cr. Physical history of the earth in relationship to the orderly development of life throughout geologic time. Lecture, lab, and field trips. Prerequisite: Geology 101 or consent of instructor. *LS*.

GLG 130 Geologic Methods I. 3 cr. The techniques used in investigating, identifying and classifying earth materials. Lab work with demonstrations. Field trips. *LS*.

GLG 131 Geologic Methods II. 3 cr. Introduction to photogrammetry, use and interpretation of aerial photographs. Topographic and geologic maps, including application to historical geology. Lab and field trips. *LS*.

GLG 135 Environmental Geology. 3 cr. Applications of the science of geology to problems resulting from our intense use of the earth and its resources. Field trip required. *EL*.

GLG 169 Earth Science and Human Environment. 4 cr. The physical environment and our interaction with it. Emphasis on earth processes which affect humans, such as rivers, erosion, groundwater, landslides, and earthquakes. The impact of humans upon the environment. Air, water and soil pollution studied from a physical-chemical standpoint. The depletion of energy and mineral re-

sources and the need for humans to design with nature. Lecture, lab and field trips. *LS*.

GLG 228 Survey of Oceanography. 3 cr. A survey of fundamental topics and contemporary problems in the science of the sea including scientific exploration, configuration of the ocean basins, properties of sea water, interface with the continents, currents and circulation, sediments on the sea floor, economic resources of food, minerals, energy and water, and oceanographic factors bearing on modern social, commercial, legal, international and exploitation problems of the world ocean. Prerequisite: high school physics or chemistry recommended and consent of instructor. *EL*.

GLG 291 Geological Field Studies. 1-6 cr. Formal classroom study of an area of geologic interest followed by field study of the area. May be taken for credit more than once. See Interdisciplinary Studies 291. Prerequisite: consent of instructor. *EL*.

GLG 297 Special Topics in Geology. 1-3 cr. The topic selected will depend on student interest and special competencies of available staff. Prerequisite: consent of instructor. *EL*.

GLG 299 Independent Reading. 1-3 cr. For exceptional students in lieu of a regular course. May involve seminar presentation. May be taken more than once. Prerequisite: sophomore standing and consent of instructor. *EL*.

GLG 301 Principles of Mineralogy. 4 cr. Minerals, their physical and chemical properties, crystallography, geologic significance and uses. Prerequisite: Geology 101 or 102 and high school or college chemistry course. *LS*.

GLG 302 Elementary Petrology. 4 cr. Study of igneous, sedimentary and metamorphic rocks, including classification, genesis, field identification and petrographic microscope study. Field trips. Prerequisite: Geology 301. *LS*.

GLG 306 Gems and Precious Stones. 1-2 cr. The mineralogy and properties of gem minerals as well as semi-precious and non-precious lapidary materials. Geologic origins, location and composition of specific minerals, why they are valuable, and the several methods of bringing rough materials to a finished state. *EL*.

GLG 314 Geologic Field Methods. 2-3 cr. Theory and techniques of geologic mapping and field work. Theory and use of air photographs, aerial mosaics, altimeter, hand level, Brunton, Jacob staff, section measuring, alidade, and transit. Lecture, lab and field trip. Prerequisite: Geology 102. *LS*.

GLG 316 Introduction to Geophysics. 2 cr. Study of selected topics relating to the internal constitution of the earth, global tectonics and geophysical methods. Prerequisite: Geology 100 or 101 and Physics 141. *EL*.

GLG 350 Minerals as a Public Problem. 2-3 cr. Distribution of mineral resources, present and future problems of mineral supply, conservation of minerals, and mineral resources in relation to national and international policy. Prerequisite: sophomore standing or consent of instructor. *EL*.

GLG 409 Geomorphology. 3 cr. Principles and analysis of geomorphic processes and resulting landforms. Field trip. Prerequisite: Geology 100, 101-102, or Geography 123-124. *EL*.

GLG 414 Structural Geology. 3 cr. Principles of rock deformation, structures in layered rocks, struc-

tural and analysis, intrusive structures. Field trip. Prerequisite: Geology 102, 301 and consent of instructor. *EL*.

GLG 443 Glacial and Pleistocene Geology. 3 cr. Principles, characteristics and work of glaciers; events of the Pleistocene Period. Field trips. Prerequisite: Geology 100, 101-102, or Geography 123-124. *EL*.

METEOROLOGY

MLG 100 Weather and Climate. 2-4 cr. Introductory course in meteorology. Nature and causes of wind, clouds, and precipitation; storm systems and fronts; thunderstorms, tornados, hurricanes; weather maps and forecasting. 2-3 cr. *EL* or 4 cr. *LS*.

GERMAN

(See Foreign language)

HISTORY

HIS 101 United States History to the Civil War. 3-4 cr. American political, economic and social development from the age of exploration and founding of the colonies to the Civil War. *SS*.

HIS 102 History of the United States Since the Civil War. 3-4 cr. American political, economic and social development from the Civil War to the present. *SS*.

HIS 105 History of Western Civilization. 3-4 cr. Survey of Western Civilization from Ancient times through the Renaissance, emphasizing the distinctive features of western culture, political development, and economic development, and the contributions made by non-western people. *SS/HI*.

HIS 106 History of Western Civilization. 3-4 cr. Survey of Western Civilization from the Renaissance to Contemporary times, emphasizing the further development of Western culture, political institutions and economic institutions, including reference to the interaction among the peoples of the modern world. *SS/HI*.

HIS 110 History of the American Frontier. 3 cr. American expansion focusing on the Turner-hypothesis, land policy, territorial evolution, Indian policy, mining, lumbering, and fishing frontiers, the Cattleman's West, transportation and the literary uses of the West. *SS*.

HIS 111 Ancient History. 3-4 cr. Survey of the history of civilization from the beginnings in Mesopotamia through Classical Greece with emphasis on institutional and social development. *HI*.

HIS 112 Ancient History. 3-4 cr. Survey of the history of civilization from Alexander the Great through the fall of the Roman Empire with emphasis on institutional and social development. *HI*.

HIS 114 Modern Revolutions. 3 cr. An introduction to the study of history through the examination of revolutionary eras. Topics will include the American, French and Russian revolutions. *SS*.

HIS 115 Medieval Europe. 3-4 cr. General introduction to the history of Europe, from the later Roman Empire to the end of the Middle Ages. *HI*.

HIS 116 History of Modern Germany, 1815 to the Present. 3 cr. Political, social, economic and cultural development from the end of the Napoleonic wars, through the founding of the German Empire, World War I, the Weimar Republic, the Nazi era, World War II and the postwar period. Emphasis is on evolution of conservatism, liberalism, socialism and nationalism, the rise of Hitler and National Socialism and the re-orientation of Germany after 1945. *SS*.

HIS 117 History of the Soviet Union. 3 cr. A consideration of the major themes and personalities of Russian history since 1917. *SS*.

HIS 119 The Making of Modern Europe. 3-4 cr. An introduction to the principal developments in the history of Europe from the Renaissance to the fall of Napoleon. *SS*.

HIS 120 Europe and the Modern World, 1815 to the Present. 3-4 cr. A general survey of the political, economic, social and cultural history of modern Western civilization. *SS*.

HIS 121 Modern Asia. 3 cr. A study of the political, social and economic developments of contemporary Asia, focusing on the rise of nationalism, and emphasizing the twentieth century development of China. *SS*.

HIS 123 English History: England to 1688. 3-4 cr. General survey of the political, economic, social and cultural history of England from earliest historic times. *SS*.

HIS 124 British History: 1688 to the Present. 3-4 cr. General survey of the political, economic, social and cultural history of Great Britain. *SS*.

HIS 126 Twentieth Century Europe. 2-3 cr. Study of the major political, social, and cultural developments of Europe since 1900. *SS*.

HIS 127 The World in the Twentieth Century. 3-4 cr. Survey of the major trends in Europe, Asia, Africa and the Americas since 1900; the two world wars, the social and political revolutions of our time; Fascism and Communism; the new states of Africa and Asia. *SS*.

HIS 150 History of the Family. 3 cr. The pre-industrial family; the effect of industrialism, child-rearing, courtship, adolescence, domestic life, old age, death and dying. Emphasis on American and/or European experience. *SS*.

HIS 178 History of Minorities in America. 3 cr. This course will explore the role of ethnic, racial, religious and sexual groups in the history of the United States from the era of colonization to the present. Includes political, economic, social and cultural development. *SS*.

HIS 183 Modern War and American Life. 3 cr. An investigation of the impact of the Civil War, World Wars I and II, and the Cold War on American society. The home front will be emphasized, with attention to wartime politics and the economy, civil liberties, and the social effect of war. *SS*.

HIS 185 Recent American History, 1917-1945. 3 cr. Political, social, economic, and cultural changes in America during World War I, the Twenties, the Great Depression, and World War II. *SS*.

HIS 186 Recent American History, 1945-Present. 3 cr. A continuation of HIS 185. Origins and history of the Cold War, McCarthyism, the Fifties, the Civil Rights movement, the war in Indochina, Watergate and its aftermath. SS.

HIS 190 History of Wisconsin. 3 cr. History of Wisconsin from the beginning of the historical period to the present, with emphasis on the economic and social aspects of Wisconsin history since 1815. SS.

HIS 195 The United States, 1877-1917: The Rise of Modern America. 3 cr. The transformation of the United States into an urban-industrial nation and a world power. The rise and impact of modern industrialism, organization of labor and farmers, disappearance of the frontier, overseas expansion, and the resulting political, economic, intellectual and social changes in America. SS.

HIS 197 The United States, 1917-Present. 3 cr. Political, social, economic and cultural changes in America during World War I, the Twenties, the Age of the Great Depression, World War II, postwar America, and the ripening Civil Rights movement. SS.

HIS 198 The Film as Social History. 2-3 cr. This course will focus on the feature and documentary films produced in a particular historical period. Through viewing selected films, the student will gain a deeper understanding of the motion picture's significance as an historical document, as well as its function as a propaganda device. An effort will be made to relate the thematic content of the selected films to the specific historical context in which they were produced and consumed. SS.

HIS 203 Colonial Latin America. 3 cr. Development of Hispanic and Portuguese America through 1830; emphasizing social and institutional patterns. SS.

HIS 211 History of the American Frontier. 3 cr. American expansion focusing on the Turner hypothesis, land policy, territorial evolution, Indian policy, mining, lumbering, and fishing frontiers, the cattleman's West, transportation, and the literary uses of the West. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 213 Recent Latin America. 3 cr. A continuation of History 203, emphasizing the evolution of independent states. SS.

HIS 216 History of Modern Germany, 1815-Present. 3 cr. Political, social, economic, and cultural development from the end of the Napoleonic wars, through the founding of the German Empire, World War I, the Weimar Republic, the Nazi era, World War II, and the postwar period. Emphasis is on evolution of conservatism, liberalism, socialism, and nationalism, the rise of Hitler and National Socialism, and the re-orientation of Germany after 1945. Similar to HIS 116, but course material is covered in greater depth. Prerequisite: sophomore standing or consent of the instructor. SS.

HIS 219 History of the Soviet Union. 3 cr. A consideration of the major themes and personalities of Russian history since 1917. Similar to HIS 117, but course material is covered in greater depth. Prerequisite: sophomore standing or consent of the instructor. SS.

HIS 221 Modern Asia. 3 cr. A study of the political, social and economic developments of Contemporary Asia, focusing on the rise of nationalism, and

emphasizing the Twentieth Century development of China. Similar to HIS 121, but course material is covered in greater depth. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 222 Recent Chinese History. 3 cr. Western impact, social change, and revolutions in twentieth century China, pre-1949. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 223 History of the People's Republic of China, 1949-Present. 3 cr. Social, economic, and political transformation of China under communism with emphasis on the role of ideology in contemporary Chinese historical development, and an analysis of the nature of that historical development in comparative perspective of other post-revolutionary histories. Prerequisite: History 222 or consent of instructor. SS.

HIS 225 History of Modern Japan. 3 cr. Modern transformation of Japan, with special attention to nationalism, imperialism, and experiences of economic and political development. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 254 American Foreign Relations, 1763 to the Present. 3 cr. America's relations with the world, emphasizing the economic, political and ideological elements determining policy. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 255 Proseminar in History. 3-4 cr. This course will explore a historical topic through readings, discussion and written assignments. SS.

HIS 256 Topics in History. 1-4 cr. This course will explore in depth a historical topic through lectures, discussions, readings and written assignments. SS.

HIS 257 Origins and History of World War II. 3 cr. Background and history of World War I. Problems of peacemaking and international organization, rise of Fascism, National Socialism, and Japanese imperialism; breaking the peace; World War II. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 259 History of Europe Since 1945. 3 cr. Political, social, economic, and moral effects of the Nazi era, the Resistance and the Liberation; restoration and reconstruction; influence of the United States and the Soviet Union; capitalism, socialism, and communism; the European unity movement and the cold war; social and cultural changes; relations with Africa and Asia. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 260 History of Technology. 3 cr. General survey of the development of technology from early humans to the advent of the Industrial Revolution with analyses of the relationship between science and technology and the interaction of Eastern and Western cultures. SS.

HIS 270 American Business History. 3 cr. The role of business in American society from colonial times to the present. Changes in managerial practices within the firm and in relation to the larger community. Origins of American capitalism, appearance of corporate organization, work patterns, changing business ethics and their legal environment, government regulation, international trade. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 278 History of Minorities in America. 3 cr. This course will explore the role of ethnic, racial, religious and sexual groups in the history of the

United States from the era of colonization to the present. Includes political, economic, social and cultural development. Similar to HIS 178, but course material is covered in greater depth. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 280 History of the Great Lakes Region, 1600-1870. 3 cr. This course traces the development of the Great Lakes Region as a distinct physiographic, economic, political and cultural area in North America. The historical development of such an international region within the context of traditional nationalism and international rivalry, as well as its impact and influence within the respective nations. A frame of reference is provided for comparison with other regions within the North American milieu. SS.

HIS 283 Modern War and American Life. 3 cr. An investigation of the impact of the Civil War, World Wars I and II, and the Cold War on American society. The home front will be emphasized, with attention to wartime politics and the wartime economy, civil liberties, and the social effect of war. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 285 Recent American History, 1917-1945. 3 cr. Political, social, economic, and cultural changes in America during World War I, the Twenties, the Great Depression, and World War II. Similar to HIS 186, but course material is covered in greater depth. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 286 Recent American History, 1945-Present. 3 cr. A continuation of History 285 (1917-45). Origins and history of the Cold War, McCarthyism, the Fifties, the Civil Rights movement, the war in Indochina, Watergate and its aftermath. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 288 Representative Americans. 3 cr. A biographical approach; evaluation of contributions of leading Americans to the nation's development. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 289 Colonial and Revolutionary America, 1607-1789. 3 cr. The establishment and political, social and economic development of the English colonies in North America; origins and consequences of the American Revolution; and the establishment of the new nation. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 290 History of Wisconsin. 3 cr. History of Wisconsin from the beginning of the historical period to the present, with emphasis on the economic and social aspects of Wisconsin history since 1815. Similar to HIS 190, but course material is covered in greater depth. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 291 The Age of Jefferson and Jackson, 1789-1848. 3 cr. Establishment of the national government; growth of democracy and the nature of party development; westward expansion; economic change, slavery and social reform. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 293 Civil War and Reconstruction. 3 cr. Analysis of slavery in the Old South, the anti-slavery movement, the conflict between the North and South (sectionalism), the significance of the Civil

War, presidential and congressional reconstruction, the position of the freedmen in the South and postwar America. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 295 The United States, 1877-1917: The Rise of Modern America. 3 cr. The transformation of the United States into an urban-industrial nation and a world power. The rise and impact of modern industrialism, organization of labor and farmers, disappearance of the frontier, overseas expansion, and the resulting political, economic, intellectual and social changes in America. Similar to HIS 195, but course material is covered in greater depth. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 296 People and Machines in American Technology. 3 cr. Critical biographical study of notable inventors, industrialists, engineers, such as Fulton, Ford, and Edison, with emphasis on value systems and corresponding relationship to technology. Prerequisite: none. SS.

HIS 297 The United States, 1917 to the Present. 3 cr. Political, social, economic and cultural changes in America during World War I, the Twenties, the Age of the Great Depression, World War II, postwar America and the ripening Civil Rights movement. Prerequisite: sophomore standing or consent of instructor. SS.

HIS 299 Independent Studies. 1-3 cr. Extensive reading for the purpose of surveying the literature on a particular historical subject, possibly including a research project, under the personal supervision of the instructor. The subject matter is open, to be determined by the student and instructor. Students will be encouraged to use off-campus resources when available. Prerequisite: consent of instructor. SS.

Not all courses listed here are offered at all centers. See your campus timetable or the course offerings.

INTERDISCIPLINARY STUDIES

INT 100 English as a Second Language. 1-2 cr. A program dealing with English as a second language for students whose native language is not English. The program is designed to assist foreign students in improving their skills in spoken and written English for successful academic work at the university level. Prerequisites: for students who (1) are not native speakers of English, and who (2) have studied English extensively as a second language prior to being enrolled in the UW Centers. EL.

INT 102 Introduction to Environmental Studies. 3 cr. Principles that govern the structure, function, and interrelationships of the earth's ecosystems are examined. The impacts of man's activities are viewed as they relate to these basic processes. Solutions to environmental problems are examined relative to both the limitations of the environment and the constraints by today's technological society. Prerequisite: none. EL.

INT 105 Greek and Latin Origins of Medical and Scientific Terminology. 2-3 cr. The course is

designed to acquaint students pursuing science and other majors with the origins of technical terms they are likely to encounter. Prerequisite: none. EL.

INT 195 Managing the Future. 2-3 cr. A systematic, interdisciplinary study of the sets of possible, probable, and desirable future environments with which mankind will be confronted (immediate and long-range), with special emphasis on the critical next two decades. The effects on society of rapid technological advances are considered. EL.

INT 197 Basic Photography. 3 cr. An introduction to photography: development of photography, fundamental photographic theory, basic camera handling, developing, printing and enlarging; an introduction of photographic aesthetics. Students must provide a camera. EL.

INT 250 Energy and the Quality of Life. 3 cr. Discussion of the interplay of energy, technology, and culture. The impact on value systems of energy used in technology. The need to project energy use in terms of emerging value systems. EL.

INT 291 Interdisciplinary Field Trip. 1-3 cr. (Same as GLG 291) Formal classroom study of an area of geographic, biological and anthropological interest followed by field study of the area. May be taken more than once. EL.

INT 294 Career Exploration. 1-3 cr. A directed study combined with career experience intended to occur after completion of one or two semesters. Designed to provide an opportunity for students to explore and orient themselves to a career field of their choice. Intended to transfer to a degree-granting institution as elective credit. Prerequisite: completion of 12 credits and consent of instructor. EL.

INT 295 Career Development. 1-3 cr. A directed study combined with career experience intended to occur after completion of 3 or 4 semesters. Designed to provide an opportunity for students to either extend their career development in their chosen discipline or occupation, or to investigate a second career field whether related or unrelated to the experience in INT 294. Intended to transfer to a degree-granting institution as an elective credit. Prerequisite: INT 294 and consent of instructor. EL.

INT 296 Careership. 2-6 cr. A directed study combined with career experience intended to occur in the second semester of the sophomore year (or in the first semester of the junior year). A learning contract is designed by the student in concert with a University Center professor and approved for credit as part of the student's major or minor by a member of the department at the degree-granting institution to which the student is transferring. Prerequisite: INT 295 and consent of instructor. EL.

JOURNALISM

See Communication Arts

LEARNING RESOURCES

LEA 100 Grammar Skills. 1-2 non-degree cr. This course covers the basic principles of English

grammar including parts of speech, the basic sentence, phrases, clauses, and complex sentences. Designed to increase the student's ability to recognize faulty habits, and to correct these habits.

LEA 101 Speed and Efficiency in Reading. 1-2 non-degree cr. Speed and efficiency in reading non-fiction prose are achieved through a structural analysis approach. The student is trained to become sensitive to the organizational pattern of good expository writing, and develop a range of reading speeds and judgment about when each should be used.

LEA 102 Learning Skills. 1-2 non-degree cr. This course assists students in assessing deficiencies and developing effective generalized learning skills. Topics explored include: managing time, taking notes, reading textbooks, taking exams, writing themes and reports, making oral presentations, improving memory and concentration, etc.

LEA 103 Reading and Study Skills. 1-2 non-degree cr. A course to aid students to learn to study, to take notes, to budget their time; the technique and organization of research papers and reports; special attention is given to developmental reading.

LEA 104 Career Planning & Preparation. 1-2 non-degree cr. This course will enable students to develop career goals and lay out a path for achieving these goals. Students will examine their personal interests, aptitudes, values, decision making skills, academic plans, and career awareness. This personal, educational, and occupational information will then be organized and translated into an individualized course of action. Integration of career goals with current and future college coursework will be stressed.

LEA 105 Basic Math. 1-2 non-degree cr. Designed for students with minimum algebra background or who have been away from mathematics for several years. Subject areas to be covered include: arithmetic decimals, exponents, indices, canceling and binomial reductions.

LECTURE (UNIVERSITY) FORUM

LEC 101 University Forum. 1 cr. A lecture-discussion course designed to introduce students to current problems and significant issues. Open to freshmen and sophomores. May be taken twice for a maximum of two credits. EL.

LEC 102 Library Methods. 1-2 cr. A course designed to assist students in the identification and use of library resources, to illustrate the organization of libraries within the academic setting, to acquaint the student in the use of books and libraries as sources of information in contemporary society. EL.

MATHEMATICS

In addition to the stated prerequisites, some campuses provide placement exams and recommend a satisfactory score for placement in certain courses.

MAT 081 Topics in Geometry. 1-3 non-degree cr. Designed for students who have not had high school geometry. Includes methods of proof, properties of simple plane figures, congruence and similarity.

MAT 091 Elementary Algebra. 1-3 non-degree cr. Designed for those who have not had high school algebra. Topics include introduction to sets, binary operations, variable expressions, fractions, factoring, and solving simple equations.

MAT 102 Survey of Mathematics. 2-4 cr. This course is designed as a general education course in mathematics. The course has no fixed collection of topics. The topics are selected from several areas of mathematics by the instructor. They will be presented on an intuitive level with an emphasis on an appreciation of mathematics and the relative importance mathematics has played in society and in other disciplines. It is not intended as preparation for other mathematics courses. *MA* (For AA degree, *EL* for AS degree.)

MAT 105 Introduction to College Algebra. 3-4 cr. Sets and logic; basic properties of the real number system; the fundamental operations of algebra; exponents and radicals; linear and quadratic functions and inequalities; graphs; direct and inverse variation; complex numbers and optional topics. Prerequisite: one year of high school algebra and one year of high school geometry, or one year of high school algebra and concurrent registration in a geometry course or equivalent. Some campuses offer MAT 105 in two one-semester modules for students whose placement test scores or prerequisite deficiencies indicate potential difficulty in one-semester four-credit courses. *MA*.

MAT 110 College Algebra. 3 cr. Definition of function; linear and non-linear functions and graphs including logarithmic and exponential functions; systems of linear equations; complex numbers; theory of polynomial equations; mathematical induction and optional topics. Prerequisite: MAT 105, 3 years of high school math or equivalent. *MA*.

MAT 113 Trigonometry. 2 cr. Trigonometric functions, their basic properties and graphs; identities, inverse trigonometric functions, solving trigonometric equations; solutions of triangles. Prerequisite: MAT 110 or concurrent registration in MAT 110 or 3 years of high school math, or equivalent. *MA*.

MAT 117 Elementary Statistics. 3 cr. The primary aim of the course is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. Includes measures of central tendency, measures of variability, grouped data, the normal distribution, central limit theorem, hypothesis testing, estimation, T-distribution, chi square test, the F-distribution. Prerequisite: MAT 105, or equivalent. *MA*.

MAT 118 Introductory Mathematics of Finance. 2 cr. Mathematical characteristics of currently used financial growth laws; annuities; amortization; sinking funds and bonds. Prerequisite: MAT 110 or equivalent. *MA*.

MAT 119 Introductory Finite Probability. 2 cr. The algebra of sets; elementary logic and probability; Bayes theorem; independent events. Prerequisite: MAT 110 or equivalent. *MA*.

MAT 124 Pre-Calculus Mathematics. 4-5 cr. Functions and graphs, including linear, polynomial, logarithmic and exponential functions; complex numbers and theory of equations; binomial theorem; mathematical induction; trigonometric functions, their basic properties and graphs; identities; inverse trigonometric functions; solving trigonometric equations; deMoivre's theorem. Prerequisite: MAT 105 or equivalent. Students may not receive more than 5 credits for any combination of MAT 110, 113 and 124. *MA*.

MAT 130 Mathematics for Elementary Teachers. 4 cr. A mathematics content course for prospective elementary teachers. Emphasis is on development of properties of arithmetic. Topics may also include elementary concepts of algebra, probability and statistics. Four hours lecture or three hours lecture and two hours laboratory per week. Prerequisite: high school algebra. *MA*.

MAT 131 Algebra for Elementary Teachers. 4 cr. Topics selected from linear and abstract algebra with emphasis on topics directly related to the elementary school mathematics curriculum. Principles, aims, methods, and techniques of teaching elementary school mathematics with emphasis upon the teaching of algebraic concepts. Four hours lecture or three hours lecture and two hours laboratory per week. Prerequisite: MAT 130, or equivalent. *MA*.

MAT 132 Geometry for Elementary Teachers. 4 cr. A continuation of MAT 130 with emphasis on geometric concepts. Topics may also include concepts of algebra, probability and statistics. Four hours lecture or three hours lecture and two hours laboratory per week. Prerequisite: high school algebra and geometry. *MA*.

MAT 211 Calculus and Related Topics. 4 cr. Primarily for students in business, the social sciences, and biological sciences who wish to acquire some knowledge of the techniques and applications of calculus. Topics include concepts and techniques of differential and integral calculus with applications. Students who are preparing for further study in advanced mathematics (e.g. majors in mathematics, physics, etc.) should take the sequence MAT 221, 222, 223. Prerequisite: MAT 110, or MAT 124 or equivalent. *MA*.

MAT 212 Calculus and Related Topics. 4 cr. This course is of interest primarily to business students. Topics include matrices, linear programming and applications, probability, multivariate calculus and the mathematics of finance. Prerequisite: MAT 211, or consent of instructor. *MA*.

MAT 220 Computer Illustrations of Calculus. 1 cr. This course emphasizes the analysis of selected

calculus topics using a computer. It reviews programming in a high level language, then examines calculus related programs such as approximation of function limits, graphing f by approximating $f'(x)$ at several points, location of zeros of functions, location of extreme values of functions, and integral approximations. Prerequisite: MAT 211 or MAT 221 or equivalent, and a computer course or consent of instructor. *MA*.

MAT 221 Calculus and Analytic Geometry I. 5 cr. Analytic geometry, functions, limits and continuity, the derivative and the integral techniques of differentiation, applications of differentiation, integration. Prerequisite: MAT 124, or MAT 110 and MAT 113, or equivalent. *MA*.

MAT 222 Calculus and Analytic Geometry II. 5 cr. Continuation of MAT 221. Applications of integration, logarithmic and exponential functions, trigonometric functions, techniques of integration, polar coordinates and the conic sections, infinite series, vectors. Prerequisite: MAT 221. *MA*.

MAT 223 Calculus and Analytic Geometry III. 4-5 cr. Continuation of MAT 222. Infinite series; analytic geometry of three dimensions; functions of several variables with emphasis on partial differentiation and multiple integration; introduction to differential equations. Prerequisite: MAT 222 or equivalent. Note: the order of topics covered in MAT 221, 222, and 223 may depend on the text used and the instructor. *MA*.

MAT 232 Introduction to Mathematical Logic. 2 cr. Symbolic logic applies to mathematical proofs, particularly those of calculus. This course is designed to enable the student to handle the many proofs in calculus and later math courses. Prerequisite: MAT 221 or concurrent registration in MAT 221, or equivalent, or consent of instructor. *MA*.

MAT 240 Statistical Analysis. 3 cr. Elements of probability theory; collection and presentation of sample data; basic problems of statistical inference; applications, including quality control; regression; hypothesis testing. Prerequisite: MAT 211, or MAT 221, or equivalent. *MA*.

MAT 262 Linear Algebra. 3 cr. Matrices and linear systems; vector spaces and linear transformations. Prerequisite: MAT 221 or equivalent. *MA*.

MAT 271 Ordinary Differential Equations. 3 cr. Ordinary differential equations of the first and second order with emphasis on geometrical interpretations and applications to geometry and physics, linear differential equations with constant coefficients. Prerequisite: MAT 223, or concurrent enrollment in 223. *MA*.

MAT 299 Independent Reading in Mathematics. 1-3 cr. Prerequisite: Sophomore standing and consent of instructor. *MA*.

MAT 320 Linear Mathematics. 4 cr. Introduction to linear algebra, vector spaces, matrices, linear transformations and eigenvalues. Ordinary differential equations and linear systems of differential equations. Prerequisite: MAT 223 or equivalent. *MA*.

MILITARY SCIENCE

MLS 101 The Defense Structure and Introduction to Leadership. 1 cr. An overview of the U.S. Defense Structure, past, present and future. Introduction to the organization of the U.S. Army and fundamentals of military leadership. *EL*.

MLS 102 U.S. Defense Establishment II. 1 cr. Military organizations, missions and capabilities. Individual weapons and marksmanship. Leadership lab. *EL*.

MLS 105 Introduction to Reserve Officers' Training Corps (ROTC) I. 1 cr. Current issues, options, scholarship opportunities, and offerings within the Army Reserve Officers' Training Corps Program. The course encompasses a series of introductions to facets, equipment, and fundamentals that will be expanded upon in later courses. Physical activity includes an introduction to rappelling. Provides insight into everyday workings of the U.S. Army. *EL*.

MLS 106 Introduction to Reserve Officers' Training Corps (ROTC) II. 1 cr. A continuation of fundamentals begun in MLS 101. Visits to and activity on an indoor rifle range as well as basic fundamentals in compass/map reading techniques are included. The course broadens to include the career and financial options open to members of the active army, National Guard, and U.S. Army Reserve. A two-day field training exercise held at Fort McCoy, Wisconsin (held on an optional basis) gives further introduction to military procedures. *EL*.

MLS 201 American Military History. 2 cr. A survey of American military history with emphasis on factors which have contributed to the development of military art and theory as practiced in the U.S. Army. Leadership lab. *EL*.

MLS 202 Introduction to Tactics and Operations. 1-2 cr. The objectives of this course are: to develop an appreciation of the fundamentals and techniques of small unit tactics; to orient the student on the use of maps and map substitutes required for military operations; to introduce the student to the fundamental considerations for military operations. Leadership lab, to include weekend field trip. *EL*.

MLS 205 Land Navigation. 2 cr. Application of the principles of land navigation and the use of maps and lensatic compasses to traverse unfamiliar terrain. Facets of the course include an introduction to aerial photography reading and the sport of orienteering. A good portion of the class period is conducted outdoors on and around the campus. *EL*.

MLS 206 Introduction to Military Ethics and Professionalism. 2 cr. Current issues and events facing the U.S. establishment. Organizational structure, budgeting procedures, and roles of the Armed Forces components are examined. The final 6 weeks entail an in-depth analysis of the ethics and professionalism standards demanded of an army officer. The course provides an overview of the military's role within society and the officer's role within the military. Prerequisite: none *EL*.

MLS 251 Introduction to Military Leadership. 2 cr. Principles of military leadership, military organization and structure, map reading and land navigation, fundamental role of the military in government. Field trip required. *EL*.

MLS 301 Small Unit Tactics & Communications. 3 cr. Lecture, seminars, and practical exercises initiating the student to principles and fundamentals of platoon size operations in offense and defensive operations. Exercises are supplemented by an introduction to and practical application of unit equipment to include small arms and radios. This course is designed to familiarize students with Advanced Camp tasks in order to instill greater confidence during the summer practicum. Prerequisites: MLS 101, 102, 201, 202 or approval of Military Science Department. *EL*.

MLS 302 Method of Instruction/Leadership Principles. 3 cr. Leadership practicum in resolving small unit leadership problems caused by communications, misunderstandings, motivational problems, and job performance degradation. The final one-third of the course encompasses instruction and practical application in the fundamentals of military instruction. Instructional topics are continually geared to preparing the student for Advanced Camp participation and completion. *EL*.

MLS 401 Staff Procedures and Military Law. 3 cr. Procedures and responsibilities of military staff officers, staff planning and decision-making; responsibilities and functions of a commander. The final 6 weeks are devoted to the explanation and analysis of the military legal system as established by the Uniform Code of Military Justice. Prerequisite: MLS 302 or Military Science Department approval. *EL*.

MLS 402 Administrative & Logistics Management. 3 cr. Discussion and practical exercise dealing with the role of the junior officer in meeting his responsibilities for unit administration and logistics management, familiarization with customs and traditions of the military, and the many facets of becoming a commissioned officer. *EL*.

MUSIC

MUS 070 Orchestra. 0-2 cr. Open to all students by tryout. *EL*.

MUS 071 Band. 0-2 cr. Open to all students with previous experience. *EL*.

MUS 072 Chorus. 0-2 cr. Open to all students. *EL*.

MUS 073 Swing Choir. 0-2 cr. Consent of instructor. *EL*.

MUS 074 Jazz Ensemble. 0-2 cr. Consent of instructor. *EL*.

MUS 075 Vocal Ensemble. 0-2 cr. Consent of instructor. *EL*.

MUS 076 Woodwind Ensemble. 0-2 cr. Consent of instructor. *EL*.

MUS 077 Brass Ensemble. 0-2 cr. Consent of instructor. *EL*.

MUS 078 Percussion Ensemble. 0-2 cr. Consent of instructor. *EL*.

MUS 079 String Ensemble. 0-2 cr. Consent of instructor. *EL*.

MUS 107 Vocal Techniques. 1-2 cr. Theory and practice in fundamentals of singing. *EL*.

MUS 115 Woodwind Techniques. 1-2 cr. Flute, oboe and bassoon. *EL*.

MUS 121 Woodwind Techniques. 1-2 cr. Clarinet and saxophone. *EL*.

MUS 130 Brass Techniques. 1-2 cr. Trumpet and horn. *EL*.

MUS 131 Theory Fundamentals. 2 cr. Open to non-music majors and music majors or minors needing remedial work before enrolling in Theory 171. Study of basic notation, rhythm, intervals, scales and chords; sight-singing and ear-training. *EL*.

MUS 132 Theory Fundamentals. 2 cr. Continuation of Music 131, with further study of basic fundamentals plus introduction to chord structure and part-writing; sight-singing and ear-training. Prerequisite: Music 131 or consent of instructor. *EL*.

MUS 136 Brass Techniques. 1-2 cr. Trombone, baritone and tuba. *EL*.

MUS 145 Percussion Techniques. 1-2 cr. *EL*.

MUS 147 String Techniques. 1-2 cr. Guitar. *EL*.

MUS 148 String Techniques. 1-2 cr. Violin and viola. *EL*.

MUS 154 String Techniques. 1-2 cr. Cello and string bass. *EL*.

MUS 160 Percussion Techniques. 1-2 cr. *EL*.

MUS 170 Fundamentals of Music. 2-3 cr. This course is designed to acquaint the student with the fundamentals of music through experiences with the keyboard, rhythm instruments, singing, listening, note reading, and so forth. Required for elementary education majors and open to the general student. Not accepted as part of a music major or minor. *EL*.

MUS 171 Music Theory I. 4-5 cr. Basic notation; intervals, scales and modes; rhythm; contrapuntal harmony, written and keyboard; sight singing and ear training; selected music for harmonic and form analysis. Open to music majors and minors or by consent of instructor. *HU*.

MUS 172 Music Theory I. 4-5 cr. Prerequisite: Music 171. *HU*.

MUS 173 Music Literature and Appreciation. 2-3 cr. A guide to musical enjoyment and understanding; includes listening experiences in various styles and forms of music. *HU*.

MUS 174 Music Literature and Appreciation. 2-3 cr. A continuation of Music 173. *HU*.

MUS 271 Music Theory II. 4-5 cr. Adds to the student's vocabulary non-dominant harmony, altered chords, the Neapolitan sixth, and augmented sixth. Modulation to remote keys, melodic and harmonic dictation from the piano, and sight-singing and keyboard experience with more difficult materials. Prerequisite: Music 172. *HU*.

MUS 272 Music Theory II. 4-5 cr. Prerequisite: Music 271. *HU*.

MUS 273 Jazz History and Appreciation. 2-3 cr. An introduction to the styles and form of jazz through a study of its history and literature. Includes recorded listening experiences. *HU*.

MUS 275 History of Western Music. 3 cr. A survey of the historical development of musical style and theoretical concepts from ancient Greece to 1750. Prerequisite: Music Theory 172 or consent of instructor. *HU*.

MUS 276 History of Western Music. 3 cr. A continuation of Music 275 starting from 1750 to the present. Prerequisite: Music Theory 172 or consent of instructor. *HL*.

MUS 280 Conducting. 2 cr. Conducting techniques; emphasis on practical application to vocal and instrumental groups. *EL*.

MUS 281 Conducting. 2 cr. A continuation of 280. *EL*.

MUS 295 Selected Studies. 0-3 cr. Single course offerings not listed in the catalog, reflecting individual campus interests. Prerequisite: consent of instructor. *HL*.*

MUS 299 Independent Study. 0-3 cr. Readings, papers, reports, or projects to be determined by the instructor. Prerequisite: consent of instructor. *EL*.*

MUA 299 Independent Study. 0-3 cr. Recitals, musicals, opera, theater, opera workshops. *EL*.*

MUSIC APPLIED CHART

All courses are considered electives.

(All applied music courses carry the prefix MUA)

	BEGINNING		ELEMENTARY		CREDITS	INTERMEDIATE		CREDITS
PIANO *	001	002	003	004	1-2	005	006	1-2
ORGAN	069	070			1	093	094	1-2
VOICE	007	008			1	009	010	1-2
GUITAR	011	012			1	013	014	1-2
FLUTE	015				1	016	017	1-2
OBOE	018				1	019	020	1-2
CLARINET	021				1	022	023	1-2
SAXOPHONE	024				1	025	026	1-2
BASSOON	027				1	028	029	1-2
HORN	030				1	031	032	1-2
TRUMPET OR CORNET	033				1	034	035	1-2
TROMBONE	036				1	037	038	1-2
BARITONE	039				1	040	041	1-2
TUBA	042				1	043	044	1-2
PERCUSSION	045				1	046	047	1-2
VIOLIN	048				1	049	050	1-2
VIOLA	051				1	052	053	1-2
CELLO	054				1	055	056	1-2
STRING BASS	057				1	058	059	1-2
HARP	060				1	061	062	1-2
RECORDER	063				1	064	065	1-2
HARPSICHORD	066				1	067	068	1-2

	1ST YEAR		CREDITS	2ND YEAR		CREDITS	3RD YEAR		CREDITS
PIANO *	105	106	2	205	206	2	305	306	2
ORGAN	103	104	2	203	204	2	2		
VOICE	109	110	2	209	210	2			
GUITAR	113	114	2	213	214	2			
FLUTE	116	117	2	216	217	2			
OBOE	119	120	2	219	220	2			
CLARINET	122	123	2	222	223	2			
SAXOPHONE	125	126	2	225	226	2			
BASSOON	128	129	2	228	229	2			
HORN	131	132	2	231	232	2			
TRUMPET OR CORNET	134	135	2	234	235	2			
TROMBONE	137	138	2	237	238	2			
BARITONE	140	141	2	240	241	2			
TUBA	143	144	2	243	244	2			
PERCUSSION	146	147	2	246	247	2			
VIOLIN	149	150	2	249	250	2			
VIOLA	152	153	2	252	253	2			
CELLO	155	156	2	255	256	2			
STRING BASS	158	159	2	258	259	2			
HARP	161	162	2	261	262	2			
RECORDER	163	164	2	263	264	2			
HARPSICHORD	169	170	2	271	272	2			

*All Beginning and Elementary Applied Piano may be taught as a class or as private lessons.

PHILOSOPHY

PHI 100 Critical Thinking. 1-3 non-degree cr. This course is designed to assist students in developing the critical reading skills necessary for evaluating arguments. It is recommended for students who are insufficiently prepared for college level academic work.

PHI 101 Introduction to Philosophy. 3-4 cr. An introduction to philosophy as the activity of clarifying ideas, developing positions, and evaluating arguments on such problems as: what is, what ought to be, freedom, God, and knowledge. Some reference to positions of leading figures and schools of thought in the history of philosophy is usually involved. *HU/SS.*

PHI 102 Introduction to Social and Political Philosophy. 3 cr. Studies of differing philosophical views about humankind and its political and social life. Prerequisite: 3 credits in philosophy recommended but not required. *SS.*

PHI 103 Belief, Knowledge and Truth. 3 cr. Study of the grounds of rational belief and knowledge and the methods used for obtaining them, with particular emphasis on problems of evidence and truth. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 106 Introduction to Philosophy of Religion. 3 cr. An introduction to the problems inherent in defining the nature of religious experience and analyzing the concepts needed to explicate and communicate that experience, together with an analysis of various religious assumptions. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 201 Introduction to Asian Philosophy. 3 cr. An introduction to Asian philosophy through a study of opposing views about knowledge, nature, society, and the individual. Areas of emphasis may include Chinese, Indian, Japanese and Muslim thought. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 210 The Uses of Argument. 3-4 cr. Argument in familiar contexts; emphasis on improving the student's skills in making and evaluating arguments; not open to students who have had PHI 211. *HU.*

PHI 211 Elementary Logic. 3-4 cr. Principles, standards and methods of distinguishing good reasoning from bad, as applied to deductive and inductive inferences. Nature and detection of fallacies, and linguistic pitfalls affecting reasoning. *HU/SS.*

PHI 220 Introduction to the Philosophy of Science. 3 cr. An introduction to the presuppositions underlying the natural and social sciences; their nature and function, the logic of scientific method, and analysis of basic concepts such as: cause, probability, determinism, and teleology. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 226 Philosophical Ideas in Literature. 3 cr. A study of philosophical and moral ideas as embodied in selected works of literary art: aesthetic analysis of their structure and content. Prerequisite: 3 credits in philosophy recommended but not required. *HU/LI.*

PHI 240 Introduction to Existentialism. 3 cr. An introduction to existential philosophy through critical examination of philosophical problems found in the writings of selected existential philosophers from Kierkegaard to the present. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 241 Introductory Ethics. 3 cr. Nature of moral problems and of ethical theory, varieties of moral skepticism, practical ethics and the evaluation of social institutions. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 248 Biomedical Ethics. 3 cr. Study of ethical issues pertaining to medicine and related biological sciences. Issues covered usually include abortion, euthanasia, truth telling, confidentiality, experimentation on human subjects, behavior modification, genetic engineering, criteria of death, organ transplants, professional relationships and professional duties. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 253 Philosophy of the Arts. 3 cr. Examination of production, appreciation and criticism of works of art; sources and uses of standards. Prerequisite: 3 credits in philosophy recommended but not required. *HU.*

PHI 258 Human Nature, Religion and Society. 3 cr. Study and critique of the views of theistic and secular writers concerning religion and its relationship to individual and social problems. Prerequisite: 3 credits in philosophy recommended but not required. *HU/SS.*

PHI 291 Selected Topics in Philosophy. 3 cr. Each course offering must be approved by both the local campus and the chairman of the department. Prerequisite: varies with each offering. *EL.**

PHI 299 Independent Reading in Philosophy. 1-3 cr. Program must be approved by chairman of the department. Prerequisite: consent of instructor. *EL.**

Not all courses listed here are offered at all centers. See your campus timetable or the course offerings.

PHYSICAL EDUCATION

Basic physical education open to all students, which develops skills, teaches rules, and prepares for recreational enjoyment.

OBJECT PROJECTION ACTIVITIES

One credit courses. (*All courses are considered electives.*)

- PED 001 Archery
002 Badminton
003 Basic Physical Education
004 Basic Physical Education
005 Basketball
006 Beginning Bowling
007 Intermediate Bowling
008 Canoeing
009 Beginning Golf
010 Intermediate Golf
011 Field Hockey
012 Handball, Paddleball and

- Racquetball
013 Marksmanship
014 Softball
015 Squash
016 Beginning Tennis
017 Intermediate Tennis
018 Volleyball
019 Weight Training
020 Angling
021 Flag Football

BODY HANDLING ACTIVITIES

One credit courses. (*All courses are considered electives.*)

- PED 025 Ballet
026 Bicycling
027 Introduction to Conditioning
028 Advanced Conditioning
029 Modern Dance
030 Folk & Square Dance
031 Social Dance
032 Beginning Fencing
033 Intermediate Fencing
034 Apparatus Gymnastics
035 Beginning Horsemanship
036 Intermediate Horsemanship
037 Judo
038 Roller Skating
039 Ice Hockey
040 Ice Skating
041 Beginning Skiing
042 Intermediate Skiing
043 Cross Country Skiing and Orienteering
044 Tumbling and Trampoline
045 Wrestling
046 Yoga-Relaxation Techniques
047 Backpacking
048 Orienteering

AQUATIC ACTIVITIES

One credit courses. (*All courses are considered electives.*)

- PED 055 Beginning Swimming
056 Intermediate Swimming
057 Synchronized Swimming
058 Advanced Life Saving
060 Springboard Diving
061 Scuba Diving
062 Sailing

Courses with emphasis on learning the skills, rules and teaching techniques. Primarily for students planning to major in physical education or related fields, but open to other students.

One credit courses. (*All courses are considered electives.*)

- PED 101 Archery
102 Basketball Fundamentals
103 Baseball
104 Badminton
105 Canoeing
106 Curling
107 Folk & Square Dance
108 Social Dance
109 Golf
110 Handball, Paddleball and Racquetball
111 Skiing
112 Skating
113 Beginning Swimming
114 Advanced Swimming

- 115 Volleyball
- 116 Tennis
- 117 Soccer
- 118 Weight Training
- 119 Sailing
- 120 Wrestling
- 121 First Aid (Standard Instructor,
American Red Cross)
- 122 Water Safety Instructor

PROFESSIONAL PHYSICAL EDUCATION COURSES FOR MAJORS & MINORS

PED 201 Gymnastic Apparatus. 2 cr. Skill development, safety, spotting techniques and teaching progressions on gymnastic apparatus for students majoring in physical education and related fields. *EL*.

PED 202 Body Mechanics. 2 cr. Components of exercise structure; use of various pieces of equipment and apparatus in exercise; mechanics of movement and its application. *EL*.

PED 203 Introduction to Play and Recreation. 2 cr. Emphasizes design, leadership, programs and the administration of parks and playgrounds. *EL*.

PED 204 Principles of, and Introduction to Physical Education. 2 cr. An overview of health education, physical education, intramurals, athletics and recreation; specialized areas in the various fields and the vocational opportunities offered in each; personal and professional qualifications of a physical educator with emphasis on establishing the role of physical education in society. *EL*.

PED 205 Prevention and Treatment of Athletic Injuries. 2 cr. Procedures and techniques in the prevention and care of common athletic injuries. Diagnosis, rehabilitation and the relationship of an athletic trainer to athletes, coaches and administrators. *EL*.

PED 206 Personal Health. 2-3 cr. Survey of the various aspects of health which affect both the individual and the community. Topics include drugs, smoking, alcohol, venereal disease, mental health and others. *EL*.

PED 207 Basketball Theory and Coaching. 2 cr. Theory and methods of teaching and coaching basketball. Skill analyses, practice schedules, rules and fundamentals of individual and team play are covered. *EL*.

PED 208 Developmental Activities for Children. 2 cr. The theory, organization and teaching of developmental activities to elementary school children. Observation and practical teaching labs. *EL*.

PED 209 Theory, Technique and Practice (Team Sports). 2 cr. Fundamental movement skills and an operational understanding of human movement. Lab practice in selected team sport skills. *EL*.

PED 210 Theory, Techniques and Practice (Individual Sports). 2 cr. Fundamental movement skills and an operational understanding of human movement. Lab practice in selected individual sport skills. *EL*.

PED 211 Physical Education for Elementary Schools. 2 cr. Thorough examination of elementary school curricula through field observation, teaching and participation in activities. Bases for

planning curriculum for primary and elementary grades are developed through selective readings and discussions. *EL*.

PED 212 Tumbling, Trampoline and Floor Exercise. 2 cr. Skill development, safety, spotting techniques and teaching progressions in tumbling, trampoline and floor exercise for students majoring in physical education and related fields. *EL*.

PED 213 Red Cross First Aid and Emergency Medical Care. 2-3 cr. Principles and procedures in emergency and home medical care designed to prepare the layman for emergencies likely to be encountered in daily living. *EL*.

PED 214 Individual and Dual Sports. 2 cr. Theory and practice in golf, tennis and badminton. Emphasis on skill analysis and teaching technique. *EL*.

PED 215 Sports Officiating. 2 cr. A theoretical and practical approach to officiating athletic contests at various levels of competition. The mechanics of officiating, knowledge, interpretation of rules and field experience are integral parts of the course. *EL*.

PED 216 Outdoor Education. 2 cr. An overview of the philosophy, resources, skills, methods and activities associated with the natural environment as a laboratory for the achievement of selected objectives of education. The emphasis is on participation and leadership situations in the outdoors. *EL*.

PED 217 Social Aspects of Sport. 2-3 cr. A course focusing on sport institutions as social organizations and how they function within a culture. Emphasis is placed on group structure and membership and group pressure, socialization, stratification and deviance as they apply to the sport's setting. Selected topics include sport in educational institutions, minorities and women in sport, sport as work and play, and sport and the media. *EL*.

PED 291 Special Topics in Physical Education. 1-3 cr. Course content must be approved by the local campus and the chairman of the department. *EL*.

PED 299 Independent Study in Physical Education. 1-3 cr. Program must be approved by chairman of the department. *EL*.

PHYSICS

PHY 107 Ideas of Modern Physics. 3-4 cr. An introductory course for non-science majors, with particular emphasis on the development of modern theoretical concepts. Central topics: classical mechanics, electromagnetism, quantum theory, relativity theory; some discussion of historical and philosophical aspects. May be offered without laboratory work for three credits or with laboratory for four credits. Check the local timetable for credits listed. Not open to those who have had one or more courses in college physics; does not apply toward engineering or physics majors, or toward the physics requirements for pre-professional courses. Prerequisite: Minimal mathematics preparation. *EL* - 3 cr., *LS* - 4 cr.

PHY 110 Physics for the Health Sciences. 3-4 cr. A descriptive introduction to those basic concepts of physics which have application to human health in general, and to the medical and paramedical

professions in particular. Primary attention will be paid to the physics of various functions of the human body (e.g. muscular and skeletal motions and the several senses, neural processes) and to the physics of commonly used instruments and equipment. Prerequisite: High school general science and algebra or consent of instructor. *EL* - 3 cr., *LS* - 4 cr.

PHY 120 Physical Science. 3-4 cr. Selected topics from physics, geology, and astronomy. This course is not intended for those planning to major in a physical science; it does not fulfill the prerequisites for any more advanced courses. May be offered without a laboratory for three credits or with a laboratory for four credits. Check the local timetable for credits listed. Not open to those who have had Physics 103, Physics 201, or equivalent. Prerequisites: None. *EL* - 3 cr., *LS* - 4 cr.

PHY 141 General Physics. 4 cr. The study of mechanics, heat, wave motion, and sound. Recommended for students majoring in business, elementary education, medical technology, pharmacy, pre-dentistry, and pre-medical studies. Three hours of lecture and three hours of laboratory-discussion per week or equivalent. Prerequisite: one unit each of high school algebra and geometry. *LS*.

PHY 142 General Physics. 4 cr. A continuation of Physics 141. Electricity, magnetism, light, atomic and nuclear physics. Three hours of lecture and three hours of laboratory-discussion per week, or equivalent. Prerequisite: Physics 141. *LS*.

PHY 201 General Physics. 5 cr. The study of mechanics, heat, wave motion, and sound. Recommended for physical science and engineering majors. Three hours of lecture, one hour of discussion and three hours of laboratory per week, or equivalent. Prerequisite: Mathematics 221 or concurrent registration in Mathematics 221 with consent of instructor. *LS*.

PHY 202 General Physics. 5 cr. A continuation of Physics 201. Electricity, magnetism, light, and nuclear physics. Prerequisite: Physics 201, concurrent registration in MAT 222 or consent of instructor. *LS*.

PHY 205 Modern Physics. 3 cr. Introduction to atomic, nuclear, solid state physics; kinetic theory, quantum theory. Prerequisite: Physics 202 and consent of instructor. *EL*.

PHY 211 General Physics. 4 cr. The study of mechanics, heat, and thermodynamics. Recommended for physical science and engineering majors. Three hours of lecture and three hours of laboratory per week, or equivalent. Prerequisite: concurrent registration in Mathematics 221. *LS*.

PHY 212 General Physics. 4 cr. A continuation of Physics 211. Periodic motion, waves, electricity and magnetism. Three hours of lecture and three hours of laboratory per week, or equivalent. Prerequisite: Physics 211 and concurrent registration in Mathematics 222. *LS*.

PHY 213 General Physics. 4 cr. A continuation of Physics 212. Electromagnetic waves, atomic and nuclear physics. Three hours lecture and three hours of laboratory per week, or equivalent. Prerequisite: Physics 212. *LS*.

PHY 291 Topics in Physics. 1-3 cr. An extended coverage of one or more topics in physics such as environmental physics, energy, biophysics

mechanics, electricity and magnetism, electromagnetic radiation, statistical physics, solid state physics, relativity, quantum mechanics, atomic and nuclear physics. Prerequisite: Consent of instructor. *EL* *

PHY 299 Independent Study. 1-3 cr. Independent study under the supervision of an instructor. The work may, for example, consist of advanced laboratory investigation into a particular topic or library research and writing of a paper on some subject of interest. Prerequisite: consent of instructor. *EL* *

PHYSIOLOGY

See Biological Sciences

POLITICAL SCIENCE

POL 101 Introduction to Politics. 3-4 cr. A general introduction to political science, including basic concepts such as power, authority, legitimacy; types of political systems, and approaches to the study of politics; problems common to all political systems. *SS*.

POL 104 American Government and Politics. 3-4 cr. Study of the structure and decision-making processes of American national government. *SS*.

POL 106 Comparative Politics of Major Nations. 3-4 cr. Analysis of the political systems of select major nations of the world, stressing comparison of cultures, institutions, processes, and methods of comparative analysis. *SS*.

POL 110 Politics of Health Policy and Social Welfare. 3 cr. This course examines political factors in American health and social welfare policies, with occasional reference to comparable events in other industrial societies. It focuses on processes whereby these public policies are promoted or opposed, adopted or rejected, implemented and evaluated. *SS*.

POL 116 Political Continuity and Change. 3-4 cr. A comparative survey of socio-economic and political problems of changing societies. Analysis of cohesive and divisive forces, elites and ideologies affecting development, stability, continuity, and evolution. *SS*.

POL 124 Politics of Crime and Punishment. 3 cr. An introduction to public policy as it affects public order: crime, criminals, police behavior, the criminal courts, juvenile justice and prisons. This course includes an analysis and evaluation of existing reform proposals. *SS*.

POL 125 State and Local Government. 3-4 cr. Organization, structure and function of state and local governments, with emphasis on Wisconsin. *SS*.

POL 126 Juvenile Criminal Justice in Wisconsin. 3 cr. Survey of Wisconsin institutions which deal with youthful offenders; processes employed in disposal of cases; police and social welfare agencies; juvenile courts; constitutional law cases defining rights of the accused. Prerequisite: consent of instructor. *SS*.

POL 153 Government and Business. 3 cr. Role of government in the economy; governmental ac-

tivities affecting business such as policies of anti-trust, control of competitive practices, regulations, public expenditures, subsidies, transfer payments, and public enterprise. Prerequisite: previous course in political science or economics, or consent of instructor. *SS*.

POL 160 Politics of the International Business System. 3 cr. An analysis of the roles governments play in international business: licensing, taxation, commercial policies, monetary institutions, labor laws, environmental protection. Course includes discussion of the multinational companies. Prerequisite: POL 153 or consent of instructor. *SS*.

POL 175 International Politics. 3-4 cr. Analysis of nation-states and the international system; contemporary issues in the world; political, economic, and military; power relationships among states. *SS*.

POL 185 Politics of American Foreign Policy. 3-4 cr. An examination of U.S. foreign policies since 1945 with emphasis on the motives, the objectives, the methods, the policy-making process, and the interaction between domestic and foreign policy. Prerequisite: previous course in political science or consent of instructor. *SS*.

POL 201 Introduction to Political Theory. 3 cr. What is the ideal in politics and government? A survey and analysis of ideas relating to political systems and values. Prerequisite: previous course in political science or consent of instructor. *SS*.

POL 210 Chinese Politics and Foreign Policy. 3 cr. This course examines China's social, economic and political developments as well as foreign relations with the U.S., U.S.S.R. and other nations since 1949. It traces their developmental pattern with focus on the most recent events. Ideology, organization, policy conduct, leadership style and structure, and policy objectives constitute the core of this analysis. Prerequisite: previous course in political science or consent of instructor. *SS*.

POL 213 Urban Politics. 3 cr. Organization and structure of city government, city politics, development, policy problems and futures. *SS*.

POL 222 Political Parties and Pressure Groups. 3 cr. Analysis of the nature and functions of political parties; organization and operation of parties and interest groups; nominations, elections, voting behavior, and role in government. Prerequisite: previous course in political science or consent of instructor. *SS*.

POL 223 Proseminar in Political Science. 3 cr. The nature and subject of this course to be announced by instructor. Prerequisite: previous course in political science or consent of instructor. *SS*.

POL 243 Public Administration. 3 cr. An introductory study of the role and principles of administration in modern public and private institutions; analysis of the organized processes of bureaucracy for the effective utilization of human and material resources to attain the goals of society. Prerequisite: previous course in political science or consent of instructor. *SS*.

POL 250 Research in Wisconsin Government. 3 cr. Individual and group research projects focusing on the Governor's office, the legislature, the state judiciary and state politics. Prerequisite: consent of instructor. *SS*.

POL 260 Research Abroad. 1-3 cr. Students intending to travel abroad may earn credits in political science for well conceived research projects on foreign governments, politics, multinational corporations, international organizations studied during their stay abroad. Prerequisite: consent of instructor. *SS*.

POL 299 Independent Reading. 1-3 cr. Extensive reading for the purpose of surveying the literature in a particular subject, possibly including a research project, under the personal supervision of the instructor. Subject open, to be determined by the student and instructor. Students may be encouraged to use off-campus library resources when available. Prerequisite: consent of instructor. *SS*.

PSYCHOLOGY

PSY 201 Introductory Psychology. 4 cr. Overview of major content areas in psychology, such as perception, learning, motivation, psychophysiology, development, cognition, research methodology, psychopathology, social psychology, and personality. Recommended: advanced freshman standing. (May not be taken for credit by students who have taken PSY 202.) *SS*.

PSY 202 Introductory Psychology. 3 cr. (See course description, Psychology 201.) (May not be taken for credit by students who have taken PSY 201.) *SS*.

PSY 203 Individuals and Institutions: Concepts/Experience I. 3 cr. (Or 1 credit and concurrent registration in EDU 200.) Lecture/discussion presentation of concepts of human behavior will be related to concurrent experiences in community agencies—e.g., schools, social services departments and hospitals. Agency placements involve a minimum commitment of five hours per week and will provide some direct contact between the students and agency clients. Two hours of lecture and discussion will be required, with opportunity for additional individual discussion. Prerequisite: PSY 201 or 202 or concurrent registration AND consent of instructor. *SS*.

PSY 204 Individuals and Institutions: Concepts/Experience II. 3 cr. Continuation of Psychology 203. Prerequisite: PSY 203 and consent of instructor. *SS*.

PSY 205 Dynamics of Individual Behavior. 3 cr. Modes of functioning in normal individuals, strategies of adjustment to crisis situations, motivation, identity, frustration and conflict, including an overview of concepts of personality and psychopathology. Prerequisite: PSY 201 or 202. *SS*.

PSY 208 Female and Male: Gender Differentiation. 3 cr. A study of the biological, cultural, and psychological factors involved in the acquisition of sexual identity. Prerequisite: PSY 201 or 202 or consent of instructor. *SS*.

PSY 210 Psychological Statistics. 3 cr. Measures of central tendency, variability; probability, sampling distributions; hypothesis testing, confidence intervals; t-tests; chi-square; regression and correlation (linear) and introduction to analysis of variance (1-way). Prerequisite: PSY 201 or 202 or concurrent registration AND introductory college algebra or exemption. *SS*.

PSY 224 A Conceptual Introduction to Statistics. 1 cr. This course is designed specifically as a supplement to PSY 225 for students who have had no previous course in statistics. It is not a substitute for PSY 210 and transfer credit is not recommended for students taking PSY 210. Prerequisite: PSY 201 or 202 and concurrent registration in PSY 225. SS.

PSY 225 Experimental Psychology. 5 cr. Emphasis on research techniques and methodology; collection, analysis, and reporting of psychological data. Lecture and laboratory. Prerequisite: PSY 210 or an equivalent statistics course, or consent of instructor. LS.

PSY 250 Developmental Psychology: The Life Span. 3 cr. A survey of human development theories and research integrating the biological, cognitive, emotional, and social development of the individual through all stages of the life span from the prenatal period through old age. Prerequisite: PSY 201 or 202; A student who has credit for PSY 250 may not receive credit toward an associate degree for PSY 560 or 561 or 562. SS.

PSY 254 Physiological Psychology. 3 cr. Discussion of the physiological substrates of movement, attention, emotion, motivation, learning, thinking and language; including an examination of research techniques using neural lesions, electrical and chemical stimulation. Prerequisite: PSY 201 or 202. SS.

PSY 299 Directed Study in Psychology. 1-3 cr. Extensive reading for the purpose of surveying the literature in a particular subject, possibly including a research project, under the personal supervision of the instructor. Prerequisite: PSY 201 or 202 and consent of instructor. SS.

PSY 411 Current Topics on Psychology. 1-3 cr. Specific topic to be announced in campus timetable. Prerequisite: PSY 201 or 202, or consent of instructor. SS.

PSY 449 Animal Behavior. 3 cr. Behavior patterns of animals with particular emphasis on the social behavior, territoriality, sexual behavior, family patterns, aggression, defense and cooperation. Review of both experimental and ethological literature. Prerequisite: PSY 201 or 202 and five hours of zoological sciences. SS.

PSY 507 Psychology of Personality. 3 cr. Discussion of major theories and research in personality. Prerequisite: PSY 201 or 202. SS.

PSY 509 Abnormal Psychology. 3 cr. A survey of the psychology of abnormal behavior; the nature and social/biological origins of neurotic, psychotic, and other behavioral abnormalities. Prerequisite: PSY 201 or 202. One additional course in Psychology is recommended. SS.

PSY 530 Social Psychology. 3 cr. Introduction to the area of social psychology covering such topics as motivation, attitudes, conformity, aggression, and group processes. Prerequisite: PSY 201 or 202. SS.

PSY 560 Developmental Psychology: The Child. 3 cr. An examination of development from conception through adolescence. Topics include genetic influences, models of acquisition of learned behavior, motor, perceptual, cognitive, language, emotional and social development. Prerequisite: PSY

201 or 202. A student who has credit for 560 may not receive credit for PSY 250. SS.

PSY 561 Developmental Psychology: Adolescence. 3 cr. Topics include physical development; the problems of adjustment which accompany and follow the physiological changes during puberty; intellectual, emotional and social behavior. Prerequisite: PSY 201 or 202. A student who has credit for PSY 561 may not receive credit for PSY 250. SS.

PSY 562 Developmental Psychology: Adulthood. 3 cr. Topics include physical, intellectual, personal and interpersonal development; with emphasis on adaptive responses to life challenges such as career choice, marriage, parenthood, aging, and dying. Prerequisite: PSY 201 or 202. A student who has credit for PSY 562 may not receive credit for PSY 250. SS.

SOCIOLOGY

SOC 101 Introduction to Sociology. 3 cr. A study of the basic concepts, theories, and methods of sociology, emphasizing the significance of culture and personality, social process and organization, forces of social stability and change. SS.

SOC 120 Marriage and Family. 3 cr. Social science contributions to understanding processes of creating, maintaining and dissolving intimate relationships. SS.

SOC 125 Contemporary American Society. 3 cr. Patterns of contemporary social life in the United States and Canada; cultural orientation, social structures and dynamics of social change. SS.

SOC 130 Contemporary Social Problems. 3 cr. Sociological analysis of selected issues and problems in society, with focus on personal and social causes, dimensions, consequences, and solutions. SS.

SOC 131 Crime and Criminal Justice. 3 cr. This course will provide an introduction to the day-to-day functioning of the elements of the criminal justice system in the United States. The course explores the nature of crime in the United States, and reviews ideas about causes and solutions. Major emphasis is on the sociology of the component parts of the criminal justice system—the organization and role of police, lawyers, court and correctional personnel. SS.

SOC 134 Problems of American Minority Groups. 3 cr. The nature, problems and adjustments of American racial, religious, ethnic and nationality groups; proposals for reduction of intergroup tension. SS.

SOC 138 Sociological Perspectives on Women. 3 cr. A sociological examination of the status and role of women in society, including the experience of women in marriage, motherhood, employment and occupational attainment, socialization into six roles and cultural reinforcement of these. Attention to both existing patterns and change in those patterns. SS.

SOC 160 Sociology of Human Sexuality. 3 cr. Social, psychological and sociological aspects of sexual relationships and behavior, including the social psychology of physiological and emotional arousal, interpersonal attraction, and societal regu-

lation on intimate relationships. Concepts and findings in these areas are related to empirical data on sexual behavior, including pre-marital relationship particularly in American society. SS.

SOC 170 Introduction to World Population. 3 cr. Determinants and consequences of population size and growth. Changing levels of birth rates and death rates and their future social and economic implications. Fertility regulations and population policies, in countries at various stages of development. SS.

SOC 250 Organizations and Society. 3 cr. Role of organizationism including industrial, governmental and educational ones, in American society. Topics: impact of organizations on members and clients, the internal dynamics of organizations, and the interchange between organizations and the environment, including the society as a whole. Prerequisite: sophomore standing. SS.

SOC 291 Selected Topics in Sociology. 1-3 cr. The topic selected will be in some area of special competence of the instructor. When this course is offered, the specific topic will be given in the campus timetable. Prerequisite: sophomore standing plus one other course in sociology or consent of instructor. SS.

SOC 293 Proseminar in Sociology. 1-3 cr. The topic selected will be in some area of special competence of the instructor. When this proseminar is offered, the specific focus will be stated in the campus timetable. Prerequisite: sophomore standing plus an introductory course in sociology or anthropology plus one other course in sociology and consent of instructor. SS.

SOC 299 Independent Reading in Sociology. 3 cr. Prerequisite: sophomore standing and consent of instructor. SS.

SOC 357 Methods of Sociological Inquiry. 3 cr. Scientific methods and their application in the analysis of society; procedures in testing sociological theory; problem definition, hypothesis construction, collection and evaluation of data. Prerequisite: sophomore standing and an introductory level course in sociology or consent of instructor. SS.

SOC 530 Introductory Social Psychology. 3 cr. Introduction to the general area of social psychology, covering such topics as motivation, attitude, value, communications, leadership, etc. Prerequisite: sophomore standing and either Sociology 100 or Anthropology 100, or Psychology 201 or 202. SS.

SPANISH (See Foreign Language)

SPEECH AND DRAMATIC ARTS

See Communication Arts

Not all courses listed here are offered at all centers. See your campus timetable for course offerings.







Calendars

Fall Semester 1983-1984*

Registration	Aug.	22-26
Classes Start	Aug.	29
Labor Day	Sept.	5
Thanksgiving Recess	Nov.	24-27
Classes End	Dec.	13
Study Period	Dec.	14-15
Final Exam Period	Dec.	16-22
Semester Ends	Dec.	23

Spring Semester 1983-1984

Registration	Jan.	9-13
Classes Start	Jan.	16
Spring Recess	Mar.	24-Apr. 1
Easter Recess Apr. 20-22		
Classes End	May	9
Study Period	May	10-11
Final Exam Period	May	12-18
Semester Ends	May	18

*The above calendar is for the following Centers: UWC-Baraboo/Sauk Co., UWC-Barron Co., UWC-Fox Valley, UWC-Marshfield/Wood Co., UWC-Sheboygan Co., and UWC-Waukesha Co.

Fall Semester 1983-1984*

Registration	Aug.	29-Sept. 2
Labor Day	Sept.	5
Classes Start	Sept.	6
Thanksgiving Recess	Nov.	24-27
Classes End	Dec.	16
Study Period	Dec.	17-18
Final Exam Period	Dec.	19-23
Semester Ends	Dec.	23

Spring Semester 1983-1984

Registration	Jan.	16-20
Classes Start	Jan.	23
Spring Recess	Mar.	24-Apr. 1
Easter Recess Apr. 20-22		
Classes End	May	16
Study Period	May	17-18
Final Exam Period	May	19-25
Semester Ends	May	25

*The above calendar is for the following Centers: UWC-Fond du Lac, UWC-Manitowoc Co., UWC-Marathon Co., UWC-Richland, and UWC-Rock Co., and UWC-Washington Co.

Fall Semester 1983-1984*

Registration	Aug.	—
Labor Day	Sept.	5
Classes Start	Sept.	6
Thanksgiving Recess	Nov.	24-25
Classes End	Dec.	14
Study Period	Dec.	15
Final Exam Period	Dec.	16-22
Semester Ends	Dec.	22

January Interim 1983-1984

Spring Semester 1983-1984

Registration		
Classes Start	Feb.	6
Spring Recess	Apr.	16-20
Classes End	May	17
Study Period	May	18
Final Exam Period	May	21-25
Semester Ends	May	25

*The above calendar is for UWC-Marquette Co. ONLY.



Fall Semester 1984-1985*

Registration	Aug.	20-24
Classes Start	Aug.	27
Labor Day	Sept.	3
Thanksgiving Recess	Nov.	22-25
Classes End	Dec.	11
Study Period	Dec.	12
Final Exam Period	Dec.	13-20
Semester Ends	Dec.	20

Spring Semester 1984-1985

Registration	Jan.	7-11
Classes Start	Jan.	14
Spring Recess	Mar.	30-Apr. 7
Classes End	May	8
Study Period	May	9
Final Exam Period	May	10-16
Semester Ends	May	16

*The above calendar is for the following Centers: UWC-Barron Co., UWC-Fox Valley, UWC-Marshfield/Wood Co., and UWC-Waukesha Co.

Fall Semester 1984-1985*

Registration	Aug.	27-31
Labor Day	Sept.	3
Classes Start	Sept.	4
Thanksgiving Recess	Nov.	22-25
Classes End	Dec.	14
Study Period	Dec.	15
Final Exam Period	Dec.	17-21
Semester Ends	Dec.	21

Spring Semester 1984-1985

Registration	Jan.	14-18
Classes Start	Jan.	21
Spring Recess	Mar.	30-Apr. 7
Classes End	May	15
Study Period	May	16
Final Exam Period	May	17-23
Semester Ends	May	23

*The above calendar is for the following Centers: UWC-Baraboo/Sauk Co., UWC-Fond du Lac, UWC-Manitowoc Co., UWC-Marathon Co., UWC-Richland Co., UWC-Rock Co., UWC-Sheboygan Co., and UWC-Washington Co.

Fall Semester 1982-1983*

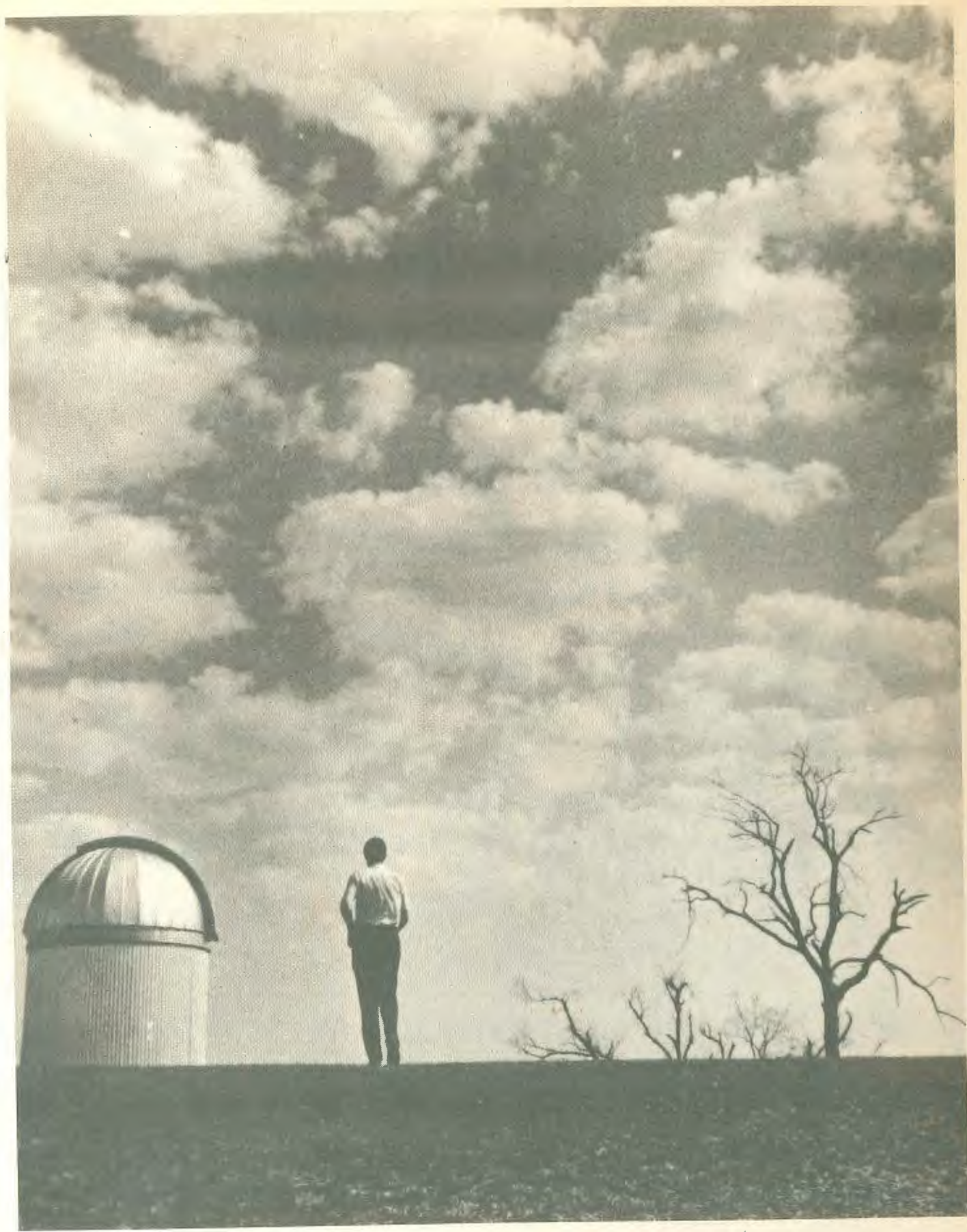
Registration	Aug.	27-31
Labor Day	Sept.	3
Classes Start	Sept.	4
Thanksgiving Recess	Nov.	22-25
Classes End	Dec.	12
Study Period	Dec.	14
Final Exam Period	Dec.	17-21
Semester Ends	Dec.	21

January Interim 1984-1985**Spring Semester 1984-1985**

Registration	Feb.	4-8
Classes Start	Feb.	4
Spring Recess	Mar.	30-Apr. 7
Classes End	May	17
Study Period	May	18
Final Exam Period	May	20-24
Semester Ends	May	24

*The above calendar is for UWC-Marquette ONLY.





Index

For unique information about your campus, check your campus timetable or student handbook.

A

- Academic counseling — 33
- Academic procedures and regulations — 49
- Access to student records — 55-56
- Accreditation — vi
- Adding courses — 52
- Administration — v
- Admission — 32-37
 - adults — 34
 - auditors — 34
 - foreign students — 34
 - freshmen — 33
 - high school students — 34
 - how to apply — 33
 - returning students — 34
 - transfer students — 33
 - when to apply — 33
- Affirmative Action information — 81
- Agriculture (See Biological Sciences)
- Anthropology — 58-59
- Art — 59-60
- Associate Degree — 43-48
 - Course designations — 47-48
- Astronomy — 61
- Auditing — 50

B

- Bacteriology (See Biological Sciences)
- Baraboo/Sauk County, UWC- — 2-3
- Barron County, UWC- — 4-5
- Biological Sciences — 61-62
- Board of Visitors — v
- Botany (See Biological Sciences)
- Business and Economics — 63

C

- Calendar — back cover
- Chemistry — 63-64
- Class attendance — 54
- College Level Examination Program (CLEP) — 35
- Communication Arts — 64
- Computer Science — 64-65
- Concurrent registrations — 36
- Costs — 36
- Course descriptions — 57-78
- Credit by examination — 34
- Credit, definition of — 50
- Credit limits — 50
- Credit load — 50
- Credit - no credit system — 50

D

- Dean's list — 54
- Degree (See Assoc. Degree)
- Degree credits (See Assoc. Degree)
- Disciplinary guidelines, student — 55
- Dramatic arts (See Communication Arts)
- Dropping courses — 52

E

- Economics (See Business and Economics)
- Education — 65
- Employment — 41
- Engineering — 65
 - graphics — 65
 - mechanics — 65
- English and Literature — 65-66

F

- Faculty Listing (See Centers)
- Family Educational Rights and Privacy Act of 1974 — 55
- Fees — 36
- Final examinations — 52
- Final grades — 51
- Financial Aid — 38-42
 - employment — 41
 - grants — 41
 - loans — 41
 - repayment — 42
 - scholarships — 41
 - Veterans' benefits — 42
- Fond du Lac, UWC- — 6-7
- Foreign Language — 8-10
- Foreign students — 34
- Fox Valley, UWC- — 8-10
- French — 66-67

G

- General Equivalency Diploma (GED) — 33
- Geography — 68
- Geology and Meteorology — 68-69
- German — 67
- G.I. Bill — 42
- Grading System — 50-51
- Grants — 41
- Guaranteed Student Loan — 41

H

- History — 69-71
- Honors — 54

I

- Incompletes — 51

- Independent student — 40
- Indian aid — 41
- International students (See Foreign students)
- Interdisciplinary studies — 71

J

- Journalism (See Communication Arts)

L

- Late registration — 52
- Learning Resources — 71
- Lecture Forum — 71
- Literature (See English and Literature)
- Loans — 41

M

- Manitowoc County, UWC- — 11-12
- Map — v
- Marathon County, UWC- — 13-15
- Marinette County, UWC- — 16-17
- Marshfield/Wood County, UWC- — 18-19
- Mathematics — 72
- Meteorology (See Geology and Meteorology)
- Mid-term grades — 52
- Military science — 73
- Mission — vi
- Music — 73
 - Applied — 74

N

- National Direct Student Loan — 41
- Natural Resources (See Biological Sciences)

P

- Part-time study grants — 35
- Pass/Fail (See CR/NC)
- Philosophy — 75
- Physical Education — 75-76
- Physics — 76-77
- Physiology (See Biological Sciences)
- Political Science — 77
- Probation — 53
- Psychology — 77-78

Q

- Questions — v

R

- Refunds/withdrawal — 37
- Regents — v

Repeating Courses — 51
Registration — 36
Residency requirements — 36
Returning students — 34
Richland, UWC- — 20-21
Rock County, UWC- — 22-23

S

Satisfactory Progress Standards — 53
Scholarships — 41
Self-supporting students — 38
Sexual Harassment — 56
Sheboygan County, UWC- — 24-25
Sociology — 78
Sophomore standing — 54
Spanish — 67-68
Special students — 34
Speech (See Communication Arts)
Student discipline — 55
Supplemental Educational Opportunity
Grant — 41

Suspension — 53-54

T

Theater courses (See Comm. Arts)
Transcript requests — 55
Transfer procedures — 55
Transfer students — 55
Tuition — 36

U

University Forum — 71

V

Veterans' benefits — 41
Vocational rehabilitation — 42

W

Washington County, UWC- — 26-27
Waukesha County, UWC- — 28-30
Wisconsin Higher Education Grant —
41
Withdrawal — 52
Work-study — 41

Z

Zero-degree credits — 50
Zoology (See Biological Science)

The provisions of this catalog do not constitute a contract between a student at a University of Wisconsin Center and the University. The sole purpose of the catalog is to provide students with information regarding course listings, regulations and other items which were in effect at the time of publication of this catalog. The UW Centers reserves the right to change any provision or requirement at any time during the student's attendance.

The University of Wisconsin Centers is an institution which does not discriminate on the basis of race, color, national origin, sex, age, disabling condition, religion or veteran's status in employment or in admission to and treatment in its educational programs and activities as required by state and federal regulations. Inquiries concerning the application of EO/AA regulations may be directed to the Affirmative Action Office, 149 N. Frances Street, Madison, WI 53703.

For more information:

Prospective students are welcome to visit any Center. To receive further information or to schedule a visit, write or call the student services director at the address listed below.

UWC-Baraboo/Sauk County

1006 Connie Road
Baraboo, WI 53913
(608) 356-8351

UWC-Barron County

1800 College Drive
Rice Lake, WI 54868
(715) 234-8176

UWC-Fond du Lac

Campus Drive
Fond du Lac, W 54935
(414) 927-3600

UWC-Fox Valley

1478 Midway Road
Menasha, WI 54952
(414) 735-5577

UWC-Manitowoc County

705 Viebahn Street
Manitowoc, WI 54220
(414) 683-4700

UWC-Marathon County

518 South 7th Avenue
Wausau, WI 54401
(715) 845-9602

UWC-Marinette County

Bay Shore
Marinette, WI 54143
(715) 735-7470

UWC-Marshfield/Wood County

2000 West 5th Street
Marshfield, WI 54449
(715) 387-1147

UWC-Richland

Highway 14
Richland Center, WI 53581
(608) 647-6186

UWC-Rock County

2909 Kellogg Avenue
Janesville, WI 53545
(608) 755-2823

UWC-Sheboygan County

One University Drive
Sheboygan, WI 53081
(414) 459-3734

UWC-Washington County

400 University Drive
West Bend, W 53095
(414) 338-5200

UWC-Waukesha County

1500 University Drive
Waukesha, WI 53186
(414) 548-5600

IW-Centers Administration

149 North Frances Street
Madison, WI 53703
(608) 262-9652

