



THE UNIVERSITY OF WISCONSIN CENTER SYSTEM



1969-71 CATALOG

Baraboo-Sauk County Campus **Marathon County Campus** **Marshfield-
Wood County Campus** **Rock County Campus** **Sheboygan County**



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MESSAGE FROM THE CHANCELLOR

We in Wisconsin are fortunate in having available throughout the state a wide variety of post high school educational opportunities, both public and private. The University of Wisconsin alone provides higher educational programs at 15 campuses, with two new four-year institutions beginning operations in 1969.

Seven of the 15 campuses are part of what is called The University of Wisconsin Center System. The Center System, and each of its component Campuses, is an integral part of The University of Wisconsin. It is the administrative and operating unit charged with the coordination of UW freshman-sophomore campuses located at Baraboo, Wausau, Marshfield, Janesville, Sheboygan, West Bend and Waukesha.

Each Center System Campus offers a complete two-year liberal arts and pre-professional curriculum, as well as adult and continuing education courses. In this manner, the first two years of a University of Wisconsin educational experience is made readily and economically available on a broad geographical basis. Credits earned at a Center System Campus are fully transferable to all other UW campuses and to colleges and universities throughout the nation.

All Center System Campuses are either new or expanding. All have their own administration, faculty and staff and their own rewarding range of cultural, social and athletic activities. All are pledged to an education that is both relevant and personal.

This we provide. The rest is up to you. Join us, if you will, in this partnership of learning . . . this partnership of growth.



L. H. ADOLFSON

THE UNIVERSITY OF WISCONSIN CENTER SYSTEM: History

8 University Center System Campuses are an integral part of The University of Wisconsin. Taken together these freshman-sophomore units comprise the UW Center System.

The roots of the Center System concept are embedded in the **Wisconsin Idea** of state-wide public service. Birth of the System can be traced to 1923, when the University first offered in Milwaukee an off-campus, coordinated program of freshman-sophomore courses and a collection of adult education evening classes.

The Campuses grew in number and enrollment in the depression period, declined during World War II, and burgeoned with the return of former servicemen to the point where, in 1946, there were 29 Campuses and 2,600 students outside of Milwaukee.

In the late 40's and early 50's they became something more than clusters of classes, decreasing in number, but evolving into strong regional two-year campuses, reflecting the basic purposes of the Madison campus and developing their own individual characteristics.

Legislation was passed in Wisconsin which authorized local units of government to issue bonds for the construction of UW facilities. This opened the door to the unique "partnership of people" policy which characterizes the Center System. Cities and/or counties provide the physical plant and the state, through the University, supplies the equipment and the academic programs. Marathon County's funding of facilities specifically designed for a UW Center System Campus in Wausau was a first in 1960, but signaled a trend resulting in the 13 freshman-sophomore campuses of today.

On July 1, 1968, several of the UW Center System Campuses were academically and administratively linked to two new four-year University institutions. Two-year campuses at Manitowoc, Green Bay, Menasha (Fox Valley) and Marinette are now part of The University of Wisconsin-Green Bay. The Kenosha Campus and the Racine Campus have become a part of The University of Wisconsin-Parkside.

A University Center System Campus is administered by a dean, responsible to the Center System chancellor who, in turn, is responsible to the president of the University. Faculty and student participation in the academic and extra-curricular life of the Campuses is in the overall University tradition, but is also individualized to suit local needs. The "system" part of the Campuses lies in the fact

that they are a collective unit of the University. While much of the basic work of each Campus is accomplished by the local administrative staff and faculty, a Madison-based Center System office provides certain centralized services and coordination.

Each of the Center System Campuses serves primarily as a freshman-sophomore unit of the University, providing a higher educational opportunity in a small college setting.

Faculty and students meet the standards required of the University at large, and courses are the equivalent of comparable ones offered on the four-year University campuses. Academic credits earned at a Center System Campus are, then, fully transferable—either within the University or to other institutions of higher education.

These Campuses enrich the cultural life of the communities in which they are located and, in cooperation with University Extension, offer adult and continuing education classes, workshops and institutes in a variety of subjects. Research is often aimed at applying University resources to local needs.

Center System Campuses mirror the basic University functions of teaching, research and service. They serve as one of the major organizational instruments whereby The University of Wisconsin is made physically available in many locations.



YOUR ADMISSION TO A CENTER SYSTEM CAMPUS

- 10 The University of Wisconsin has a uniform admissions policy for all campuses. One application blank is used throughout the University, and all students are asked to meet the same requirements whether they plan to start their college career at one of the Center System Campuses or at one of the University's four-year campuses. The University Center System considers for admission all students who seem to have a reasonable chance of meeting the academic requirements for graduation.



ADMISSION CRITERIA

To qualify for admission, you must be a high school graduate and take one of the two national tests required for admission. The two tests are the American College Test (ACT) given by the American College Testing Program or the Scholastic Achievement Test (SAT) given by the College Entrance Examination Board. Normally, residents of the state of Wisconsin must rank in the upper-half of their high school class. If you live in another state, you must rank in the upper 40% of high school graduates nation-wide as measured by high school record and test scores. Your test scores are considered as part of the application, but there is no passing or failing of an entrance test. The University also considers the recommendation of your high school principal or guidance counselor. You may receive a permit to enter before you have graduated from high school, since students are admitted on the basis of grades earned through the junior year plus a listing of the subjects carried in the senior year.

Your high school program must include 16 units distributed as shown in the chart below:

English	_____	3 units
Algebra	_____	1 unit
Geometry	_____	1 unit
Two of the following:		
A foreign language	2 units	
History and social studies	2 units	_____ 4 uni
Natural science	2 units	
Academic electives in English, speech, foreign language, history, social studies, natural science, and mathematics (algebra, geometry, trigonometry, analytic geometry, and calculus). Fractional units are accepted, except in foreign language.		
	_____	3 units
Other electives. Fractional units are accepted.		
	_____	4 units

		16 units

YOUR ADMISSION TO A CENTER SYSTEM CAMPUS

12 ADMISSION STEPS:

1. Complete an application for admission. Blanks may be secured from your high school or from the admissions office of any University of Wisconsin campus. Please complete the application carefully, and follow the directions given on the application form.
2. Take one of the two admissions tests—ACT or SAT—and, at the time you take the test or later, ask that the scores be sent to the Center System admissions office.

WHEN TO APPLY

You may apply in October of your senior year in high school for the fall, spring or summer term. Your application must be submitted no later than August 1 for the fall term, December 15 for the spring term and May 1 for the summer term.

APPLICATION FEES

Students who do not live in the state of Wisconsin must submit a \$10, non-refundable fee with the application for admission. There is no application fee for Wisconsin residents.

TRANSFER STUDENTS

If you have attended any type of school after graduation from high school, you will complete the same application blank as new freshmen and follow the same application dates. In addition to your high school record, you must submit an official transcript from all schools you attended after high school graduation. This applies to nursing schools, business schools, vocational schools, etc. as well as other colleges and universities. Failure to submit such records may be cause for dismissal from the University. You are asked to submit the records whether or not you completed any work, regardless of your desire to claim credit for the courses. The only exception is made for training schools you may have attended as part of military service.

If you have completed 15 or more credits in another college or university, you will not need to submit the ACT or SAT scores. Residents of Wisconsin must have at least a *C* average on all college work; residents of other states must have earned grades averaging at least half *B* and half *C* on all credits carried.

ADULT EDUCATION

The Center System provides an opportunity for college education to many adult students who do not qualify for admission according to the preceding paragraphs. You may wish to take one course simply to improve your mind or you may wish to work toward a degree. Since each person has a different educational background and different needs, please discuss your situation with an admissions adviser at the Campus you plan to attend, or write to the Director of Admissions, UW Center System, 602 State Street, Madison, Wisconsin 53706.

OPPORTUNITIES FOR SUPERIOR HIGH SCHOOL STUDENTS

Programs are provided in the Center System which will challenge you while still in high school, or let you start college before high school graduation.

You may enroll at a Campus without graduating from high school. Selection for early admission is on the basis of scholastic ability, social maturity, educational plans, and the appropriateness of this plan for you. Scholastic ability is measured by your high school record and the ACT or SAT scores which should be in the top one-tenth of high school class scores. Major consideration is given to the recommendations of your high school; you should be completing at least the 10th grade and preferably the 11th grade.

High school seniors with superior records and test scores may be permitted to enroll in one or two subjects in the University while completing high school. If you are interested in this opportunity, please consult with your high school principal or guidance counselor first. You must have their recommendation to be sure this program fits in with your high school classes. After you, your high school, and the dean of the Campus agree that this is a wise choice for you, you will be asked to complete the proper application form.

ADVANCE PLACEMENT

The Center System considers advanced placement and University credit in specific subjects for high school students who have earned satisfactory scores on the appropriate College Entrance Examination Board's Achievement Tests.

YOUR ADMISSION TO A CENTER SYSTEM CAMPUS

14 PHYSICAL EXAMINATIONS

You are required to have a physical examination, by your own physician, if you are a new, full-time student or if you are re-entering the University after having been out of school two or more years. The results of the physical examination are kept on file in the Campus office and are confidential material. The form which your doctor must complete will be mailed to you after your Permit to Register has been authorized. *The results of the physical examination will have no effect on your eligibility to enter the University.*

HOUSING

Because most Center System students live at home while going to college, most of the Campuses do not provide dormitory facilities. However, the Marathon County Campus (Wausau) now has a new dormitory available to students. Inquiries for housing at the Marathon County or other Campuses should be addressed to the Campus dean or the director of student affairs, who will have information available on housing in the community.



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EXPENSES

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Fees

If you are a Wisconsin resident for tuition purposes, you will pay \$139 per semester for a program of eight or more credits. As an out-of-state student or nonresident, you will pay \$372 per semester.

You may register for seven credits or less on a per credit (part-time) basis. Wisconsin residents pay \$12 per credit; non-residents, \$33 per credit.

You are not allowed to take six-week examinations, regardless of whether an examination is held before, during or after the sixth week of classes, if you have not paid your fees.

The total fee includes, for full-time students, a \$20 activity and service fee. Fees paid by part-time students include an activity fee of \$2 per credit. Funds derived from this source will be used to improve and enrich student life by a variety of means.

(The University reserves the right to alter charges without notice. These fees were effective July 1, 1968.)

Late Registration, Late Payment

An added fee of \$10 is charged for students who complete registration after classes begin. You are officially registered when your tuition and fees are paid in full. All fees should be paid on or before Friday of the first week of instruction in each semester.

If you pay your fees after the first week of instruction, you will be assessed a late payment fee according to this schedule: during the second week of classes, \$5; third week, \$10; fourth week, \$15; fifth week, \$20; after the fifth week of classes, \$25.

A late registration fee is not applicable to part-time students. For this purpose, a part-time student is one who carries 7 or less credits.

Part-time students who do not pay their fees before the third week of instruction are subject to the following penalties: payment during the third week of classes, \$5; fourth week, \$10; fifth week, \$15.

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16 Refunds

If you withdraw from a Center System Campus during the first eight weeks of classes, your money will be refunded as follows: for withdrawal before or during the first week of classes, 100 percent; second, 80 percent; third and fourth weeks, 60 percent; fifth and sixth weeks, 40 percent; and during seventh and eighth weeks of classes, 20 percent. The *late registration* or *late payment* charge is not refundable. If you change from a full-time to a part-time program, the refund schedule is the same as listed above for complete withdrawal. The date on which you submit notice of your withdrawal to the Campus office is the official date used for refunding money.

Books and Materials

You can purchase textbooks and other materials from local bookstores at an average cost of \$40 to \$50 a semester.

Insurance

As a Center System student (carrying 8 credits or more), you are eligible for a Student Group Hospital-Medical-Accident Program at your own expense. Enrollment in this plan may help eliminate the financial worries associated with the cost of modern day hospital and medical care. Information concerning the plan is mailed to each Center System student. If you wish to enroll in this program and did not receive the information, ask for informational brochures and an enrollment form at your Campus Student Affairs Office.

Students who may participate in athletics or inter-campus activities must be covered by health and accident insurance. If you feel that you do not need this insurance plan because you are covered by another policy you carry, please check your present policy to make sure it provides coverage for accidents or illness caused by participation in athletics of any kind. It is also possible that a student may become involved in activities which include travel to another campus of the University; this policy will provide coverage for accident or illness caused by such activity.

Exemption From Out-of-State Tuition

The following is an excerpt from Section 36.16, Wisconsin Statutes of 1963, dealing with exemption from out-of-state tuition at The University of Wisconsin:

(1) (a) Any adult student who has been a bona fide resident of the state for one year next preceding the beginning of any semester for which such student registers at the university, or any minor student whose parents have been bona fide residents of the state for one year next preceding the beginning of any semester for which such student registers at the university, or any minor student whose natural parents are divorced or legally separated who has resided substantially in this state during his years of minority and at least one year next preceding the beginning of any semester for which such student registers at the university or whose mother or father has been a bona fide resident for one year next preceding the beginning of any semester for which such student registers at the university, or any minor student who is an orphan and who has resided substantially in this state during his years of minority and at least one year next preceding the beginning of any semester for which such student registers at the university or whose legal guardian has been a bona fide resident for one year next preceding the beginning of any semester for which such student registers at the university, or any minor student under guardianship in this state pursuant to ch. 48 or 319 who has resided substantially in this state during his years of minority and at least one year next preceding the begin-

ning of any semester for which such student registers at the university or whose legal guardian if a person has been a bona fide resident of the state for one year next preceding the beginning of any semester for which such student registers at the university, shall while he continues a resident of the state be entitled to exemption for nonresident tuition, but not from incidental or other fees and tuition in the university.

* * *

(ab) Nonresident members of the armed forces who are stationed in this state and their wives and children shall be entitled to the exemptions provided in par. (a) during the period that such member of the armed forces is stationed in this state.

* * *

(ac) Any female student who attended the university as a minor student exempt from the fees for nonresident tuition, and, who, would continue to be entitled to the exemptions provided in par. (a) except for having married a nonresident, shall continue to be entitled to such exemptions.

* * *

(ae) Any female who married a bona fide resident shall be entitled to the exemptions provided in par. (a) effective the semester following her marriage and while continuing to reside in this state.

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- 18 (b) Any student who has not been a resident of the state for one year next preceding the beginning of any semester for which such student registers at the university, except as above provided, shall not be exempt from the payment of the nonresident tuition fees.

* * *

(e) Notwithstanding the provisions of par. (b), any minor or totally dependent person who resides outside the state but whose parent, upon whom he is dependent, is employed full time in Wisconsin shall be admitted to the university as a resident student provided that the state of residence provides reciprocity in the levying of any taxes on income imposed by such state.

* * *

(3) In determining bona fide residence, filing of state income tax returns in Wisconsin, eligibility for voting in the state

of Wisconsin, motor vehicle registration in Wisconsin, and employment in Wisconsin shall be considered. Notwithstanding the provisions of par. (1) (a), a student from another state who is in this state principally to obtain an education will not be considered to have established a residence in Wisconsin by virtue of attendance at educational institutions.

Note: if you have any questions about your residence status, consult the Residence Examiners in the office of the Registrar, University Center System. The Registrar hears all appeals from the out-of-state classification. Consider informal opinions or statements on residence status by other University personnel as unofficial.

In determining your eligibility for exemption from the out-of-state tuition classification, the first day of instruction in a semester is considered the beginning of that semester.



FINANCIAL AIDS

There are many and varied financial aids available to qualified young men and women who wish to attend a University of Wisconsin Center System Campus. You have the opportunity to draw from the overall University financial aid program. In addition, some Campuses also have their own special programs designed to aid students attending a particular Campus. The Student Financial Aid Adviser in your Student Affairs Office will be able to give you information about financial aid and how you may obtain assistance.

Typical budgets for an academic year

STUDENTS LIVING AWAY FROM HOME

*Tuition	\$278
Books and Supplies	100
Room and Board	700
Miscellaneous and Travel	450
Total	<u>\$1528</u>

STUDENTS LIVING AT HOME

*Tuition	\$278
Books and Supplies	100
Board	400
Miscellaneous and Travel	500
Total	<u>\$1278</u>

(Nonresident students add \$466 for out-of-state tuition to this budget).

NOTE: The "Living at Home" budget above shows the actual costs of supporting a student in college for an academic year. Figures include the cost of food while living at home, miscellaneous expenses and travel. Commuters and their parents should keep in mind that they are already paying these three items. The only additional costs are those for tuition and books. Most average commuter families will find that they will be paying only an additional \$378 (\$278 tuition, \$100 books). Awards, however, are based upon the total cost of supporting a student. Assistance given beyond the tuition and book costs should go to meet board and miscellaneous expenses. (Travel expenses may be higher than transportation costs while the student was in high school. This will vary depending on whether the student attends school in his home town or commutes from a more distant residence.)

*Subject to change

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20 To help the University judge your need and award aid fairly, parents are asked to complete a confidential statement of their income, assets and liabilities. The University can then determine the difference between what your education will cost and what you and your parents can provide.

Also considered in determining a reasonable parental contribution are salaries of both parents, additional income, net worth of business or farm, real estate holdings, savings, investments, special family circumstances such as additional costs of two working parents, number of dependents, student's earning assets, extraordinary expenses (such as business or medical), and certain types of debts. Circumstances such as job expenses or debts, and support of elderly relatives or other children in college, are also taken into account.

Students are also expected to contribute to these educational expenses through summer savings. Incoming freshman girls are expected to provide \$200, incoming freshman boys, \$300; an additional \$50 is expected from the student for each additional year, i.e. soph. girl, \$250; soph. boy, \$350; jr. girl, \$300; jr. boy, \$400; sr. girl, \$350; sr. boy, \$450.

Students are expected to commit substantially all of their resources toward educational expenses before they request assistance.

Rarely can a student meet all his expenses through one type of financial aid. Assistance generally must come from a combination of resources. A student may be selected to receive a loan and grant, a scholarship and a loan, a loan and a job, or other combinations. He need not accept the whole package to receive part of it.

How to apply

(1) Only one form is required. When your application is received, you will be considered for all the kinds of financial aid for which you are eligible. You may file an application before receiving a permit to register at the University, but you must have a permit before receiving an award.

Application packets and instructions for filing them may be obtained from high school guidance counselors or principals in Wisconsin or from any of the University Campuses listed in the back of this catalog.

(2) A Parents' Confidential Statement must be completed by parents of applicants for financial aid. This form is included in the application packet referred to above.

Deadlines are as follows:

1. Scholarship grants and/or Combination of Assistance: High school seniors - March 1, Transfer and continuing students -February 15

High school seniors will be notified between April 15 and May 15 of the action taken on their applications. Transfer and continuing students will be notified between May 15 and June 15.

2. National Defense student loans, Work-Study jobs, and State of Wisconsin loans:

All applications filed before April 15 are given first priority, but applications will be accepted throughout the year as long as funds are available. Students who file late applications, however, are taking a risk, for the University cannot guarantee loan and job assistance to those applying after the priority date. Students applying after scholarship deadline dates but before priority dates will be notified of their award by August 15.

3. University loans:

Applications are accepted at any time while you are enrolled.

TYPES OF FINANCIAL AID

SCHOLARSHIPS

Nearly all scholarships are awarded in competition. The Faculty Committee on Student Financial Aids explains the criteria used in selection of scholarship recipients:

"Scholarships awarded by the Committee on Student Financial Aids to students entering or continuing at a Center System Campus will be awarded on the basis of scholarship and worth. The amount of the stipend will be determined by need. These principles should always be followed unless the stipulation of the bequest indicates otherwise."

Awards to prospective freshmen will be made on the basis of six semesters of high school work. You may, however, submit seventh semester grades, if they are

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- 22 appreciably better, and have them considered in your scholarship rating. Scholarship awards are provisional, contingent upon a satisfactory record in the senior year of high school.

Awards to continuing or transfer students of the University are made on the basis of the student's cumulative college grade point average.

The single financial aid application, with the appropriate parents' financial data, is all that is needed to apply for any scholarship assistance at The University of Wisconsin.

EDUCATIONAL OPPORTUNITY GRANTS

The Higher Education Act of 1965 created a new federal student assistance program to further help students "of exceptional financial need." In general, this means students whose parents are able to provide only a small portion of the financing of their child's education.

Further, the Act specified that the institution awarding the grant must also offer the student an equal amount of assistance from its own resources. The matching award could be in the form of a job, a loan, or a scholarship. *The student must accept the matching award conditions when he accepts the grant.* The amount of the grant may equal half of the student's need up to a maximum of \$800. This grant is renewable each year up to four years as long as the student continues to make satisfactory progress and his financial situation does not change. The grant is awarded only on a "package" basis, never singly.

LOANS

In some cases it may be advisable to borrow to finance an education, if you borrow only what you need to maintain a minimum living standard. Use caution in borrowing. Generally, you should not rely primarily on loans to finance your education.

Students are usually advised not to borrow more than half of what they need to meet their expenses, so that they will not find themselves facing a staggering debt upon graduation. Taking part-time work, or even dropping out of school for a year or so to work full time, is sometimes advisable.

Loans at Wisconsin are not available for non-educational expenses, nor are they generally available for the repayment of previously incurred debt. 23

NATIONAL DEFENSE STUDENT LOAN PROGRAM

Under Title II of the National Defense Education Act of 1958, students in good standing and with financial need may apply for National Defense Student Loan funds. *Need is the primary consideration for granting such a loan.*

Depending on need, you may borrow up to \$1,000 during any one fiscal year (July 1—June 30) with maximum disbursements of, generally, \$500 per semester. Accumulated loans may not exceed \$5,000.

Borrowers may have up to ten years and nine months, after they cease to be at least a half-time student, to repay their loans. Repayments and 3% simple interest per annum begin nine months after a student receives a degree or permanently leaves the institution. The University bills on a quarterly basis, and there is a minimum yearly repayment of \$180.00. Thus a student with a small accumulated maximum (less than \$1800) by the time he leaves school will have nearly ten years in which to repay his loans.

These borrowers who become full-time teachers in public or private non-profit elementary and secondary schools or institutions of higher education can have portions of their loans cancelled at the rate of 10% per year for each complete year of academic service. The maximum amount which may be cancelled for teaching service is 50% of the total loan, including interest, unpaid as of the first day of teaching. Cancellation of 15% per year for up to ten years may be obtained for teaching service in schools for the handicapped or in areas designated by the appropriate state agency as having a high concentration of low income families. Deferments of up to three years on all interest and repayments may be obtained while on active duty in the Armed Forces, Peace Corps or VISTA.

To apply for a loan under this program you must:

1. Be a citizen or permanent resident of the United States;
2. Be enrolled or admitted as at least a half-time student. Definition of "half-time" student: Undergraduate—carrying at least 8 credits per semester, 4 credits for an 8-week summer session;

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- 24 3. Meet the following grade requirements: Entering freshman—admitted to the University. Undergraduate—minimum 2.0 cumulative grade point average for last completed semester.

WISCONSIN STATE STUDENT LOAN PROGRAM

Residents of Wisconsin may borrow from the Wisconsin State Student Loan Program. These loans are from funds established by the state, and are administered jointly by the institution the student is attending and the State Commission for Higher Educational Aids.

You may borrow from the state loan program if:

1. You are a citizen or permanent resident of the United States and are a Wisconsin resident attending an accredited post high school educational institution;
2. You are an undergraduate, graduate or professional school student carrying one-half or more of a normal academic load;
3. You have demonstrated academic ability and are likely to go on to graduation. (Undergraduates must maintain a 2.0 cumulative grade point average and 2.0 in the last completed semester. Graduate students must maintain a 3.0 cumulative grade point average and 3.0 in the last semester completed before they can be recommended to the state for a loan. Entering freshmen who have been admitted to the University are eligible;
4. You can demonstrate financial need.

You may borrow up to \$1,000 per fiscal year as an undergraduate, with a maximum accumulation of \$5,000 in loans. There is no interest charged while you are enrolled. Nine months after you cease to be at least a half-time student, repayment and interest commences at 3% simple interest per annum. You have up to ten years from this date to repay the loan, depending upon the total amount that is outstanding. The state bills on a monthly basis, and there is a minimum yearly repayment of \$360. There are no cancellation benefits in this loan program, but deferments of up to three years may be obtained for active duty service with the Armed Forces, the Peace Corps or VISTA.

The Wisconsin Guaranteed Student Loan Program, signed into law on August 8, 1967, is now in operation throughout the state of Wisconsin. Loans under this program come from participating private lending institutions (i.e. banks, savings and loan associations, credit unions, etc.). The program is administered jointly by the private lending institutions and the Wisconsin Higher Education Corporation—a subsidiary of the Wisconsin State Higher Educational Aids Board.

To be eligible for a Guaranteed Student Loan, an applicant must:

1. Be a citizen or permanent resident of the United States and a Wisconsin resident as defined by Section 36.16 of the Wisconsin Statutes (i.e. the same as the University requirements for residency).
2. Be enrolled or accepted for enrollment at an accredited post high school educational institution in the United States.
3. Be at least a half-time student, i.e. Undergraduate - 8 credits per semester, 4 credits per summer session;
4. Have demonstrated academic ability and be likely to go on to graduation. Generally this means maintaining a 2.0 cumulative grade point average and earning a 2.0 in the last semester completed.

To apply for assistance under this program: the student is to pick up the application form from either the Financial Aids Office of the school which he is attending or from a commercial lender (i.e., bank, savings and loan association, credit union, etc.) in his home town, or from the Wisconsin Higher Education Corporation, 115 W. Wilson Street, Madison, Wisconsin.

PLEASE NOTE: Do not confuse the *Guaranteed* Loan Program with the Wisconsin State Loan Program. Though they both have Federal Interest subsidy benefits, they are otherwise entirely separate and distinct programs. The Wisconsin State Loan is based upon a strict need analysis and is awarded directly by the state upon recommendation and specification of amount by the educational institution.

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26 UNIVERSITY SHORT-TERM STUDENT LOANS

These loans are made from funds established by gifts to the University. They are generally granted in amounts of up to \$500 per academic year. With the approval of a special loan committee, they can be granted for more than \$500. Repayment usually is expected by the beginning of the next academic year, and summer earnings are pledged for that purpose. A repayment schedule is agreed upon at the time the loan is granted. Interest rates vary, but the average is 2 to 3% a year. Parents of students under 21 co-sign a promissory note.

To qualify for a University student loan you must:

1. Be a full-time student;
2. Maintain a satisfactory academic record. Undergraduates—at least 2.0 cumulative grade point average or 2.0 in the last completed semester.

OTHER LOAN FUNDS

Many individuals and foundations have established private loan funds to assist worthy students. A list can be obtained from the Financial Aids Office in Madison or from your Student Affairs Office.

Several departments and schools within the University have loan funds which they administer. They also have information about loans from outside sources in their fields. Students in agriculture, engineering, journalism, law, nursing and therapy, and music may inquire in their departments about possible loans.

Loans for Wisconsin Veterans of World War II and the Korean and Vietnam conflicts are available from the Department of Veterans Affairs, Room 700, State Office Building, 1 West Wilson, Madison, 53702.

STUDENT EMPLOYMENT

All University Center System students are eligible to utilize the employment services of the Office of Student Financial Aids. Students may apply any time during the year; however, no student can be referred to a job opening until he arrives on the Campus he plans to attend.

Hundreds of students at the Campuses help finance their education through

jobs both on and off campus. These jobs are offered through either the Campus' own employment service or under the "Work-Study" program provided through federal legislation. This program has more than doubled the opportunity for students to work at the Campuses during the regular school year and the summer. Eligibility for the Federal Work-Study program is based on the student's financial need. However, financial need is not a prerequisite for employment that is not under the Work-Study program. University Campuses offer any student the opportunity to work for a portion of the amount he will need to finance his college education, instead of having to rely totally on borrowing the necessary funds. Students are usually able to earn from \$400-\$700 during the academic year (34 weeks).

Most academically able students can carry a full load while holding a part-time job (12 to 15 hours a week) without undue strain. Many students find that they earn better grades while working part-time because they budget their time more wisely.

While previous work experience is important, the possession of needed skills is

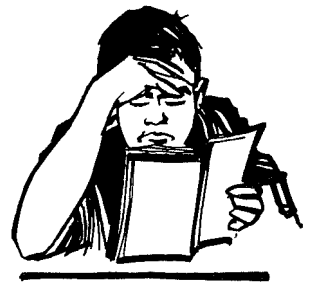


28 EXPENSES AND FINANCIAL AIDS

even more important to the job-seeking student. Students who have acquired specific skills, such as typing, shorthand, bookkeeping, carpentry, etc., will find it much easier to secure part-time positions. Rates of pay for student jobs on and off campus generally range from \$1.40 to \$2.00 per hour.

The chart below shows how much you might earn (before taxes and other deductions) in a school year:

Work Hours Per Week	\$1.40	\$1.55
	Per Hour	Per Hour
10	\$476.00	\$517.00
12	\$571.00	\$632.00
15	\$714.00	\$791.00



OTHER FORMS OF ASSISTANCE

Information about the *Cold War GI Bill*, a program of assistance for veterans, may be obtained from the Veterans Administration, Regional Office, 342 North Water Street, Milwaukee, Wisconsin.

The *War Orphans Educational Assistance Act* has been amended to provide educational benefits for children of permanently disabled veterans as well as children of deceased veterans. The veterans must have died or become disabled as a result of service in the Armed Forces during the Spanish-American War, World War I, or since September 15, 1940. If you think you may be eligible for such financial assistance, apply to the nearest Veterans Administration Office.

FINANCIAL AIDS COUNSELING



CAMPUS LIFE

30 Life on the two-year Campuses of the Center System will be exciting, challenging, rewarding. Enrollment at a Center System Campus means more than sharing a professor's knowledge and using the Campus library. It means learning from associations with your fellow students and participating in the recreational and cultural opportunities available at all Campuses. And you will, if successful, become devoted to a lifetime of learning.

Self responsibility is stressed for students, both within and outside the classroom. You will have new and greater freedoms *and* responsibilities: the University sets high academic and social standards. Joint student-faculty decision making and action in many areas help determine standards. There are written and unwritten guides for being a part of your Campus community. This catalog, and individual student handbooks, serve as examples of written guides.

STUDENT ACTIVITIES AND ORGANIZATIONS

As a citizen of the campus community you have the opportunity to contribute to the welfare of your University and enhance your own learning experiences. Your interest, criticism, and support are needed so that the all-important goal—providing you with the best educational opportunities possible—can be achieved. Faculty and student governments are dedicated to this goal.

Student organizations assume the major citizenship responsibility by planning and programming an important share of the cultural and recreational campus events. They also help determine University policy, both by recommendations to the faculty and by representation on faculty-student committees.

Student Government

As a student you are represented through a Campus student association, its legislative body, often called a Student Senate, and the many student government committees which plan all-campus activities.

The student association assesses a voluntary activity fee which each student is expected to pay to support the Campus' student government. This student government activity fee often supports other student activities and organizations, as well as providing funds for social and educational programs of particular interest to students.

A student affairs staff member serves as faculty adviser to the student government.

Responsibilities as a student begin with electing representatives to your student government, and continue through your years as a Campus student. You can be an active citizen of your Campus by being informed, asking questions, actively participating, and generally supporting your student association.

Student Organizations

Each Center System Campus has many student organizations. Registered student groups at most Campuses include language clubs, service sororities and fraternities, political and social action clubs, drama and music clubs and activities, and religious interest groups. If no club fits your interests you are free to organize a group.

Campus student organizations must be registered by the student government under policies of the Student-Faculty Student Life and Interests Committee (SLIC).

Publications

The student newspaper is an effective communications channel carrying Campus news, editorials, and features. Coverage also includes inter-Campus activities.

Membership in the student body qualifies you for a position on the staff. Staff officers and editors are elected by a publications board; the faculty adviser is also selected by this board.

Literary magazines are published at some Campuses; they offer an outlet for creative writing in the fields of poetry, the essay, and the short story.

Fine Arts Activities

Professional theater and ballet, as well as student productions, are performed at all Campuses. You are invited to take part in dramatic performances under the guidance of experienced faculty.

CAMPUS LIFE

32 Exhibitions of the work of famous artists and of students are shown regularly at all Campuses. Both students and professionals present concerts of folk, jazz, and classical music.

Distinguished American and foreign films are sponsored by the Campus Lectures and Fine Arts Committees and other student groups.

Forum and Discussion Programs

World famous political figures and specialists from varied areas of interest are brought to Center System Campuses by the Lectures and Fine Arts Committees, student governments, student organizations and University departments. Panel and informal student-faculty discussions on national, local, and Campus issues are also sponsored by various organizations. Most of these programs are free to the students and faculty.

ATHLETICS

Intramural

Center System Campuses generally offer a varied intramural program, including such sport and recreational activities as archery, badminton, baseball, basketball, bowling, curling, fencing, golf, gymnastics, handball, paddleball, soccer, softball, swimming, table tennis, touch football, cross-country, track, volleyball, weight training and wrestling. These activities are supervised by a student affairs staff member, or the athletic director.

You are eligible to participate in your campus' intramural program after you have paid your registration fees and have adequate health and accident insurance.

Inter-Campus

The Inter-Campus Athletic Conference provides competition in basketball, fencing, golf, tennis and wrestling. Participants who fulfill the necessary requirements are awarded the University Center System "W" Award. All Campuses have

basketball, golf and tennis competition. Fencing, wrestling, cross country, and tennis competition depends upon facilities, staff, and student interest. Cheerleaders support inter-Campus teams. After try-outs cheerleaders are selected under inter-Campus athletic policies.

All participants in inter-Campus sports activities must have either the student insurance policy offered by the Center System or show evidence of some other kind of health and accident insurance policy.

SOCIAL LIFE

A variety of social activities round out the Campus' calendar of events. During the course of the school year, for example, you might stage a variety show, sing along at a hootenanny, enjoy an all-school picnic, dance to your favorite band at an informal mixer, or attend Christmas and spring formal dances.

INTER-CAMPUS CONFERENCES AND WORKSHOPS

The University Center System sponsors several system-wide student conferences each year.

Forensic Tournament

Every year the University Center System Speech Department cooperates with one of the Campuses in conducting a forensic tournament. Contestants from each Campus compete for honors in the following fields: discussion, oratory, extemporaneous speaking, and interpretive reading. The three contestants receiving the highest ratings in each event are awarded medals.

Music Workshop

Student vocalists and instrumentalists have an opportunity to exercise their skills at the annual Music Workshop. The workshop, presented in cooperation with one of the Campuses, is conducted by directors selected by the University Center System Music Department.

CAMPUS LIFE

34 Student Government Conference

At the annual Student Government Conference, representatives from Campus student governments meet to discuss ideas and methods for solving common problems. Freshman-sophomore representatives at the conference are selected by their student government.

The conference is sponsored by the University Center System in cooperation with an inter-Campus student planning committee to improve student government and to assure continuity of leadership at each Campus.

Drama Workshop

The Center System Speech Department Drama Workshop is held each fall in Madison or at one of the Campuses. The participants are interested drama students from each of the Campuses.

At this workshop the students engage in such activities as acting and directing exercises and technical theater demonstrations and discussions, many of which are led by experts on all phases of the theater. There is also the opportunity to view and later discuss one or more full length productions.

Journalism Workshop

Each fall the University Center System Office of Student Affairs sponsors a workshop for student publications staffs and advisers. Participants discuss problems of writing, advertising, layout, and photography and listen to suggestions for improvement from publications experts.

In addition, a coordinator of student publications offers professional guidance to student publications staffs throughout the year and makes annual awards for outstanding achievements in journalistic activities.

SCHOLASTIC HONORS

The Center System recognizes high scholastic achievement during the freshman-sophomore years by publishing sophomore honors and high honors, which require a minimum grade-point average of 3.25 and 3.75 respectively for two

years' work based on normal class loads.

During the freshman year, you may be invited to join one of the freshman national honor societies, Phi Eta Sigma for men or Sigma Epsilon Sigma for women. Both societies require a grade-point average of 3.5 or above. Men are invited to join on the basis of their first semester records (or the record for year, if the first semester average does not meet the standard). Women are eligible after completing a year's work.

At the close of each semester, each Campus publishes a Dean's List, honoring students who have attained at least a 3.25 grade-point average for that semester. If you earn a 4.00 (straight A) average, you will be given highest honors; a 3.50 to 3.99 merits high honors, and a 3.25 to 3.49 brings honors.

STUDENT-FACULTY COMMITTEES

You have many opportunities to contribute to campus life. Students and student groups help determine University policy both by recommendations to the faculty and by representation on faculty-student committees.

The University Center System has a Faculty Senate which sets policy frameworks for all Campuses. The Senate committees, some of which include students as members, help in making Center System policy as well.

While ultimate authority lies with the Board of Regents and the faculty, you can exert positive influence on the policy making of your Campus.

Each Campus has several faculty-student committees. Students are generally interviewed by the student association in the spring of each school year; a panel of names for each committee is sent to the Dean or other appropriate University official for selection and appointment to faculty committees. Students participate broadly in the decision making process of their Campuses through these faculty committees. The student voice is welcomed and contributes to the important functions and policies of the committees and the Campuses.

Student government channels recommendations on policy changes in the area of extracurricular life and interests to the *Student Life and Interests Committee* (SLIC). This is the faculty committee designated to work in the field of extracurricular activities and is composed of students and faculty-administrative members. SLIC sub-committees have equal student-faculty representation.

CAMPUS LIFE

36 The committee's range of concern includes defining eligibility requirements for participation in all phases of student activities (except athletics); counseling with student organizations and groups; and establishing policies, rules, and regulations governing student social and group life. It often works in conjunction with student government and other student groups and is empowered to discipline organizations which fail to follow the established rules and policies.

Questions of dishonesty in class work are handled by the instructor or department in charge of the course or are referred to the *Committee on Student Conduct and Appeals*—made up of faculty members, with two students appointed by student government on the Appeals Division of the Committee. Other questions of individual misconduct are handled by the committee also, often through the Office of Student Affairs.

Other faculty committees which include student members are the Lectures and Fine Arts Committee, Student Financial Aids, and Athletics. In addition, each Campus may have special faculty committees which include student members.

OFFICE OF STUDENT AFFAIRS

Your Director of Student Affairs and his staff members stand ready to help you achieve the maximum benefits from your college experience. While the ultimate responsibility is yours, you can receive assistance in improving your study habits and reading skills, counseling on vocational objectives, financial advice, help in arranging your academic program, information on current University degree requirements, and advice on personal problems. Answers to questions pertaining to selective service regulations and the enrollment of veterans are also available. In addition to these duties, the Student Affairs staff works closely with the student body in all phases of student government, social activities, inter-Campus events, and other phases of student life.

WISCONSIN ALUMNI ASSOCIATION

If you have taken courses at a Center System Campus, you are eligible for membership in the Wisconsin Alumni Association. Membership entitles you to

the *Wisconsin Alumnus* magazine and other publications, as well as participation in alumni activities. For further information contact your local alumni association or write to Wisconsin Alumni Association, Alumni House, The University of Wisconsin, 650 N. Lake Street, Madison, Wis. 53706.



ACADEMIC INFORMATION AND REGULATIONS

38 Your college career becomes a focal point in a continuous process of education: it is the foundation on which you can build a full and satisfying life. Successful achievement in college demands that you concentrate on your academic program. You should be aware of the academic information and regulation included in this chapter. Faculty members, and particularly the advisers in the Student Affairs Office at your Campus, will help you interpret course requirements and plan a well-balanced program. Consult them often to find the most your University has to offer you.

CLASSIFICATION

When you receive your permit to register, you will notice that a combination of letters and numbers, such as BA 1, has been typed on your permit. You will be asked to use this in completing forms at registration time. The letters tell us which course you plan to follow; the numbers are "1" for freshmen, "2" for sophomores. The letter abbreviations are:

AGR—Agriculture

ART—Art Education and Applied Art

BA—General Education in Liberal Arts

ENGR—Engineering

HEC—Home Economics

MUS—Music

NUR—Nursing

PED—Physical Education

PRB—Pre-Business

PRED—Pre-Education (Elementary, Secondary, and Special)

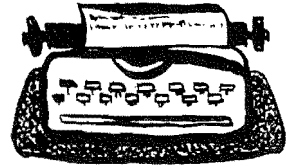
PRP—Pre-Pharmacy

If you did not indicate any specific course or major on your application blank, you will be classified as BA 1. You may change this classification on your registration materials if it does not apply to your educational plans.

GRADING SYSTEM

Semester grades are reported by letter only. Each letter grade carries a specified number of points per credit: thus a *B* in a 3-credit subject would yield 9 points. The scale of grades and points follows:

Grade	Points per Credit
A (Excellent)	4
B (Good)	3
C (Fair)	2
D (Poor)	1
F (Failure)	0



The general quality of your work is expressed in terms of a grade-point average, which is defined as the total number of grade points earned divided by the total number of credits carried. The highest possible quotient is 4.0, which represents a grade of *A* in every subject; the lowest, zero or *F*.

The lowest degree of satisfactory work is, in general, an average of *C*: that is, grade points equal to *twice* the number of credits. "Passing" grades of *D* (poor) are not good enough to keep you in the University.

YOUR ACADEMIC RESPONSIBILITIES

As a student and citizen of the University community at your Campus, several responsibilities are yours alone.

You are expected to attend each class in which you are registered, and to be present from the beginning to the end of each semester. You must satisfy your instructor that any absence was for good reason. Excessive absence may result in dismissal. Strict standards of honesty are expected of you. The course work you submit must be your own, completed according to rules and instructions given. A plea of ignorance of such instructions cannot be accepted.

At the first sign of poor grades, consult your course instructors. Their suggestions, followed closely, may prevent you from incurring probation. Help is also available at the Student Affairs Office, in the form of counseling or information on how to study.

STUDY LOAD

The majority of full-time students carry 15 or 16 credits per semester. The UW Center System defines a full-time student as one carrying 12 or more credits.

ACADEMIC INFORMATION AND REGULATIONS

40 (This does not apply to payment of fees: *for this purpose only*, full time is defined as 8 or more credits.)

As a new student you may carry a maximum of 17 credits, with one exception —if you are an engineering major, you may begin with a program of 18 credits. In succeeding semesters, engineering majors may take up to 21 credits a semester; other majors up to 19 credits, providing their average for the preceding semester was grade *B* or better.

Students who are working should seriously consider registering for reduced loads. Experience has indicated that a program load of 16 credits can be roughly equated to a full-time job. On this basis, the following table is suggested:

Credits	Employment Hours per Week
15	10
14	13
13	16
12	19
11	22
10	25
9	28
8	31



Most students would be wise to adhere closely to the work-study load above, especially *first semester freshmen*.

DRAFT BOARD NOTIFICATION

If you are registered with a Selective Service Board, you may notify the board that you are enrolled at the University by filling out a form provided at registration time, and forwarding the form to your Selective Service Board. This form, when properly completed, informs the board that you are enrolled on a full-time (12 credit) basis. The University will furnish you with further information on your academic status as needed.

CHANGES IN PROGRAM

Changing Courses

You may find that you need to change courses after you have registered. You may obtain a *change of program form* in the Student Affairs Office. This form should be completed by you to indicate the desired change. The form must be signed by the instructors concerned and by your adviser.

Adding Courses

You may add a course to your program only during the first two weeks of classes with the written permission (signature on the *change of program form*) of the instructor of the course. After the two week's deadline, you may add only courses normally prerequisite to the course for which you originally registered. For example, you registered for Math 221 and find you should have been placed in Math 112, which is prerequisite to Math 221.

Dropping Courses

You may drop a course during the first eight weeks of the semester without incurring failure by filling in the proper change form. A full-time first semester freshman may reduce his program below 12 credits. If you are not a first semester freshman, you may not reduce your program to less than 12 credits. Exceptions may be made only in extenuating circumstances.

Students who originally registered as part-time students (less than 12 credits) need not be concerned with reducing their program below 12 credits, but must make any program changes within the time limits.

Withdrawing From All Classes

You may withdraw completely from the University at any time prior to the last three weeks of classes during a regular semester or before the last two weeks during a summer session by first consulting with an adviser and then filing the proper withdrawal forms.

Absence from school during the last three weeks of the semester and/or failure to take the final examination will result in grades of failure.

ACADEMIC INFORMATION AND REGULATIONS

42 INCOMPLETES

If, because of some unusual, substantiated reason beyond your control, you are unable to take or complete a final examination or a limited amount of course work, you may arrange with your instructor to be given an Incomplete in the course. *You must be earning a passing grade in the course at the time.* The following is a quotation from the Faculty Handbook of the Center System:

"You may give a grade of Incomplete if a student who has maintained a passing grade is not able to complete his work due to some factor beyond his control. If a student stays away from a final exam, his grade shall be 'F' unless he proves that he was prevented from taking the exam by some factor beyond his control, in which case he is given an Incomplete. However, if you know from his term work that he could not have passed for the semester if he had taken the final exam, his grade shall be 'F' regardless of his reason for not taking the final."

Incompletes must be made up during your next semester in the University, or the Incomplete will be lapsed into a Failure. An instructor may set a shorter time limit for removal of the Incomplete if circumstances warrant. If your eligibility to continue at the Campus depends on removing an Incomplete, you may be required to do so immediately. All students with Incompletes are required to secure permission to continue, regardless of the student's academic record, from the Student Affairs Office.

After five years' absence from school, you cannot remove Incompletes; such Incompletes remain on your record, but do not lapse into Failures.

FAILURES

You are required to remove Failures only in courses specifically needed to complete your degree or major.

AUDITING AND REPEATING COURSES

Auditing

You may audit a course only if the instructor consents. Courses which consist principally of student participation, such as some of the music or speech

courses, may not be audited since auditing a class means that you simply attend the lectures. Courses which are audited are not counted in determining full-time attendance. You may switch from audit to credit status during the first two weeks of classes, or from credit to audit during the first eight weeks of classes by following the procedures for adding and dropping a course.

Repeating A Course

If you wish to repeat a course which you have failed, or one for which you have received credit, or to strengthen your background in a subject, the course will be counted as part of your class load and a grade will be recorded. The credits and grade points will be entered on your record and used in determining your grade-point average. You may not count credits twice for the same course in determining the total number of credits earned. This applies to repeating courses previously taken in college (at The University of Wisconsin, or another school if UW credit was granted) as well as toward repeating work which is a duplication of work taken in high school in a foreign language or in mathematics.

Taking A Course For 0 Credit

Some courses are listed in this catalog as "0-1 credit." If you take such a course for 0 credit, a letter grade will be recorded. You are expected to do all of the assigned work in a course taken for 0 credit.

INDEPENDENT STUDY (Correspondence Courses)

The University of Wisconsin Extension offers a wide range of courses that may be taken through the mail. You may wish to take one of these courses during the summer or during any semester that you cannot attend classes. To obtain a catalog listing courses available and their cost, contact the Campus in your community or write to Independent Study Department, Extension Building, Madison, Wisconsin 53706.

If you are enrolled at the Campus and have paid the full semester fee, you may take one correspondence course for credit without paying the course fee, *provided that the course is needed to complete your class schedule that semester.*

ACADEMIC INFORMATION AND REGULATIONS

44 The following regulations apply toward such enrollment:

- 1) Class credits plus correspondence credits may not exceed the maximum number of credits which you are allowed each semester;
- 2) You may not add a correspondence course after the second week of classes nor drop it after the eighth week of classes;
- 3) Failure to complete the correspondence course taken under these conditions within 30 days after the close of the semester in which you are enrolled will result in recording either a grade of Incomplete or Failure. To receive an Incomplete, you must be doing passing work in the course and present a valid reason for failure to complete it. Requests for permission to remove the Incomplete will be considered by the director of student affairs at your campus. If permission is granted, you must pay a \$5 reinstatement fee to the Independent Study Department.

If you plan to take a correspondence course in conjunction with a class program, your adviser will inform you of the registration procedures. You may purchase textbooks from The University of Wisconsin Extension by including the order and payment for them with your application. In addition to your application, you will also be asked to complete a form certifying that you have registered and paid your fees at the Campus.

SOPHOMORE AND JUNIOR STANDING

To be classified as a sophomore, you must have at least 24 credits and 48 grade points; as a junior, 58 credits and 116 grade points. However, if you plan to transfer to the College of Engineering, you will need 28 credits and 56 grade points for sophomore standing; 60 credits with a C average in all work attempted for junior standing.

CREDITS FOR GRADUATION

A credit represents one hour of class work per week for one semester, or its equivalent in other forms of instruction, together with the necessary preparation. Two or sometimes three hours of laboratory work are considered as the equivalent of one hour of class work. If you are in a program requiring 120 credits for graduation, you must average 15 credits a semester to make normal progress toward a degree.

The number of credits required for graduation varies from 120 for a B.A.-General Course Degree in the College of Letters and Science to 158 in the School of Pharmacy.

Since the Center System offers only freshman-sophomore work, you should transfer to a four-year campus after you have completed your sophomore year. In most cases, the first half of the total number of credits for a degree from The University of Wisconsin may be earned at a Center System Campus. All credits earned prior to or during your registration count toward the maximum number of credits allowed. This is true regardless of whether the work was taken within the University system or at another school, and includes work taken by correspondence. This regulation is commonly called the "60 credit rule" since 60 credits represent one-half of the minimum number of credits required for graduation from the College of Letters and Science.

ASSOCIATE IN ARTS OR SCIENCE CERTIFICATE

If you have earned one-half the credits and grade points necessary for the bachelor's degree, you may be awarded an Associate in Arts or Science Certificate, at your request.

TRANSFERS WITHIN THE UNIVERSITY

From Center System Campuses to Madison or Milwaukee, Green Bay or Parkside

If you are planning to transfer from a Center System Campus to another UW campus, you should obtain an *Application to Transfer* form at your Campus. This form should be completed and filed well in advance of the term for which you plan to transfer. The deadline dates for filing are the same as the dates for filing for admission to the University (see p. 12). Copies of your record will be forwarded automatically with the transfer form to the proper campus.

The requirements of the various schools and colleges of the UW are described in another section of the catalog (p.50). If you meet these requirements at the time you apply for transfer, you will be sent a Permit to Transfer with information about registration procedures. After you transfer, your academic record card is also transferred to the proper campus.

ACADEMIC INFORMATION AND REGULATIONS

46 From a Four-Year Campus to a Center System Campus

You may transfer from a four-year campus to a Center System Campus by filing an *Application to Transfer* form (available at the Registrar's Office of any UW campus). If you are eligible to register at the campus last attended, you will be sent a Permit to Transfer. You should not transfer to a freshman-sophomore Campus after you have attained junior standing. If an unusual circumstance arises and you would like to register at a two-year Campus as a junior or senior, you will need permission from your home campus dean to be sure that the credits earned at the two-year Campus will count toward graduation.

If you wish to transfer to a Center System Campus and you have an Incomplete on your record, you must make arrangements to remove the Incomplete on the campus where the Incomplete was incurred. To remove a Failure incurred while you were in the College of Letters and Science on the Madison or Milwaukee campus, you must have permission from the Associate Dean of that college to repeat the course at the Center System Campus.

From One Center System Campus to Another

If you plan to transfer from one Center System Campus to another, please notify the Student Affairs Office at either Campus in advance of the registration period. Your records will then be transferred accordingly. If you were dropped from one Campus and wish to attend another, you may appeal your dropped status to the Student Affairs Office at either Campus.

TRANSCRIPTS

To obtain a transcript of your Center System work, fill out a *Transcript Request* card (available at the Student Affairs office on your Campus) and send it to: Transcript Office, University Center System, 602 State Street, Madison, Wisconsin 53706. No transcript will be furnished to any student who owes the University any fine or other money.

There is no charge for any transcript.

CONCURRENT REGISTRATION

You may find it necessary in planning your program to take classes at more

than one campus of the University. To enroll concurrently, notify the Student Affairs Office at the Campus well in advance of registration. Your official registration and payment of fees should occur at only one campus, listing all classes taken within The University of Wisconsin. It is your responsibility to sign up for a specific class on each campus attended.

RE-ENTRY

To re-enter a Campus after a lapse of one or more semesters, obtain *Record of Residence and Application to Re-enter forms* from the Student Affairs Office. File them at least six weeks before classes begin.

If you attended another school after leaving the Campus, you must submit a transcript of your work. Send it to: Office of the Registrar, University Center System, 602 State Street, Madison, Wisconsin 53706.

If you have been out of school for two years or more, you will also be asked to have another physical examination. The health form will be mailed with your re-entry permit.

ACADEMIC ACTIONS

Each Campus has a Faculty Academic Actions Committee which functions in an advisory capacity to the student affairs staff in all cases where academic actions may be warranted. It also hears student appeals in cases of probation and drop actions, considers cases of readmission, and hears student appeals from all administrative decisions concerning the academic regulations as stated in this section of the catalog.

You have a right to appeal any academic actions to this committee. All academic actions are taken at your Campus, and are a part of your official record within the University.

Probation Actions

Failure to earn a 2.0 (C) grade-point average results in a probation status. The following regulations apply:

- 1) Generally, a *first semester freshman* who earns less than a 2.0 but at least a .5 grade-point average is on probation. A grade-point average of less than .5 during your first semester results in a drop status. You may not register for classes if you have incurred a drop status.

ACADEMIC INFORMATION AND REGULATIONS

- 48 2) If you are other than a first semester freshman and not already on probation, you put yourself on probation with a grade-point average of less than 2.0 but at least 1.0. You incur the drop status by averaging less than a 1.0 in a semester.
- 3) If you are *already on probation* and earn less than a 2.0 but at least a 1.5 during any semester you are placed on final probation. If you average less than a 1.5 in a semester, you will be dropped.
- 4) If you are *on final probation*, you must keep at least a 2.0 grade-point average each following semester to avoid the drop status.

PROBATIONARY ACTIONS FOR PART-TIME STUDENTS

If you carry less than 8 credits a semester and earn less than a C average, you may be warned of your academic deficiency. In normal situations, no formal probationary action will be taken until you have been registered for at least two semesters. However, *if you began the semester as a full-time student* and earn less than a C average, you are subject to probationary action.

SUMMER SESSION

Summer session students are subject to probationary actions under the same conditions as students registered during the regular school year. However, if you take only one course in a summer session, and this session is your first enrollment in the University, no probationary action will be taken until you have completed another summer session or a semester. Your total record will be considered if and when any probationary action is placed on your record.

REMOVING THE PROBATION STATUS

You may earn removal from probation or final probation when your cumulative grade-point average is at least 2.0 on all work attempted at The University of Wisconsin and you have at least a 2.0 in any semester after you were placed on probation. If you were admitted to the University on probation, you must earn at least a 2.0 on 24 credits to be removed from probation.

If you transfer to another school or college within the University, that school

may apply its own probation standards and place you back on probation upon admittance to that school. Each school has its own probation and drop regulations. 49

DROPPED STATUS

If your grades are such that you are dropped from school, you may appeal for readmission after staying out of school at least one semester. If you are dropped a second time, you must stay out of school at least one year. Appeals from the dropped status must be made through an adviser in the Student Affairs Office.



PROGRAMS OF STUDY

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DEFINITIONS

Before you begin reading about the various programs available, study the definitions below. They are provided to help you understand the material in this section.

<i>Course</i>	A specific subject such as English 101—Freshman English
<i>Program</i>	A planned series of classes leading to a degree, for example, in Journalism, Letters and Science, Mechanical Engineering
<i>Major</i>	An emphasis on a particular area of study within a program, such as a major in English in the College of Letters and Science, or a major in accounting in the School of Business
<i>School & College</i>	The words differ in meaning only in a technical way, and refer to a division of The University of Wisconsin such as the School of Education, College of Letters and Science, College of Engineering, etc.

The University of Wisconsin is a university in the truest sense of the word, offering courses in almost every field of knowledge. A university is made up of several individual schools or colleges. For example, the Madison campus has a College of Letters and Science, a College of Engineering, a School of Education, and others. On the Milwaukee campus there are, among others, a School of Fine Arts, a School of Education, and a College of Letters and Science. A wide choice of courses and majors is offered within each of these schools and colleges.

This section of the catalog is designed to give you a brief summary of the programs offered at the Madison and Milwaukee campuses. *You are urged to consult the appropriate Madison and Milwaukee catalogs for a more complete explanation of their content and requirements.*

The two newest degree-granting campuses are the University of Wisconsin-Green Bay and the University of Wisconsin-Parkside. Information about their programs may be obtained by writing directly to either institution.

COLLEGE OF LETTERS AND SCIENCE

51

Madison and Milwaukee

The College of Letters and Science on each campus offers a large number of subjects in which you may major in your junior and senior years. These majors are listed on p. 59 . Each college requires students to take a number of basic courses during the freshman and sophomore years to obtain a well-rounded education. While each college has the same objectives, the specific requirements do vary slightly. A separate worksheet for each college is given; the explanatory notes apply to both worksheets.

Requirements for the Bachelor of Arts degree in the College of Letters and Science are shown on the Requirements Work Sheet. You should try to meet most of the requirements under 1, 2, and 3 during your freshman and sophomore years.

You may receive a Bachelor of Science degree, if you prefer, by following the B.A. degree requirements and earning 60 or more college credits in mathematics and natural sciences.



PROGRAMS OF STUDY

52 Madison Campus

Requirements Work Sheet for Letters and Science Degree B.A. General Degree (Optional B.S. General Degree)

	(1)*	(2)*	(3)*
1. Meet requirements A, B., and C. in this section.			
A. English Composition: English 101-102 (1a-b) or possible partial exemption
B. Intermediate Mathematics:			
Three years high school math (algebra, geometry, and/or trigonometry); or two yrs. high school math (alg. & geom.) and one semester of college algebra (Math 101); or
Two years high school math (alg. & geom.) and one semester of college logic (Philosophy 211)
C. Foreign Language: (See Note 3 under explanatory notes)			
14 credits in one foreign language; or 16 credits in two languages only when 2 years of high school Latin and 8 credits of any other language are offered
VERY IMPORTANT. In Section 1., all credits of <i>university</i> work beyond a total of 14 will NOT count toward graduation.			
<hr/>			
2. Meet either requirements A. or B. in this section			
A. Foreign Language: 24 crs. in one or 28 crs. in two foreign languages, including foreign language credits used for 1-C above. (See Note 3 under explanatory notes)			
Language:
Additional crs.			
Language:
Additional crs.			
B. Mathematics: A year of college level calculus (Math 211-212 or 221-222) or 251-252 or equivalent

3. Meet requirements A., B., and C. in this section.
(See Note 5 under explanatory notes).

A. Humanities: 12 credits

Must include 6 crs. of any combination of English or American literature, Comparative Literature 207, 208, and/or literature courses beyond the intermediate level in foreign languages (for example, the 221-222 series). Not more than 6 crs. of any combination of sophomore level English, American, or Comparative Literature may be counted toward the 12 credit Humanities requirement.

Humanities courses:

B. Social Studies: 12 credits

Social Studies courses:

C. Natural Sciences: 12 credits

If no unit of high school Chemistry or Physics, a college semester of either is required

Natural Science courses:

4. Major Study: Credits for 1., 2., and 3. may also apply toward the major but each degree credit counts only once toward total degree credits.

Credits from above:;

Other major courses:

5 Electives: All degree credits not listed above

Total Degree Credits: 120 (incl. not more than 14 from 1. above).

*(1) Enter High School achievement; *(2) Enter College credits earned;

*(3) Enter Credits to be completed.

PROGRAMS OF STUDY

54 Milwaukee Campus

Requirements Work Sheet for Letters and Science Degree B.A. General Degree (Optional B.S. General Degree)

	(1)*	(2)*	(3)*
1. A., B., and C.			
A. Proficiency in English: English 101 and 102 or possible exemption
B. Mathematics:			
Three years high school mathematics (algebra, geometry, and trigonometry); or
Two years high school mathematics (algebra and geometry) and one semester college algebra (Mathematics 112); or
Two years high school mathematics (algebra and geometry) and one semester basic mathematics (Mathematics 108); or
Two years high school mathematics (algebra and geometry) and one semester college logic (Philosophy 211)
C. Foreign Language:			
14 credits in one foreign language; or
16 credits in two foreign languages (only when two years of high school Latin are offered in partial satisfaction)
Total (A., B., and C.) may not be satisfied with more than 14 degree credits.			
2. Either A. or B.			
A. Foreign Language: 6 credits numbered above 220 in one, or a total of 24 credits in two foreign languages, including foreign language credits used for 1-C above			
Language:.....; credits from 1-C above.....;			
Additional credits.....
Language:.....; credits from 1-C above.....;			
Additional credits.....
B. **Mathematics: Two courses at or above the 200 level e.g., (Mathematics 221 and 222)			

3. A., B., and C.

A. Humanities: 12 credits

Must include 6 credits of any combination of sophomore level English or American literature courses beyond the intermediate level in foreign languages or designated courses in comparative literature.

Not more than 6 credits of sophomore level English or American literature may be counted toward the 12 credits humanities requirements.

Humanities courses:

B. Social Sciences: 15 credits including 6 in history

Social Science courses:

C. **Natural Sciences: 15 credits including two semesters of laboratory science

Natural Science courses:

4. Major Study: Credits for 1, 2, and 3 may also apply toward the major but each degree credit counts only once toward total degree credits.

Credits from above.....; other major courses:

5. Electives: All degree credits not listed above

Total Degree Credits: 120 (including not more than 14 from 1 above)

*(1) First Column: enter work in high school or results of attainment examinations.

*(2) Second Column: enter college credits already earned.

*(3) Third Column: enter college credits to be completed.

**If total of 60 college credits are earned in mathematics and natural sciences, a student may choose to receive the Bachelor of Science degree instead of Bachelor of Arts. One year of calculus is required for the B.S. degree.

PROGRAMS OF STUDY

56 Explanatory Notes For Requirements Work Sheet

1. You can meet requirements in Section one in whole or in part by high school courses, by attainment examinations, or both. Precollege achievement which satisfies requirements in this section will enable you to substitute courses of your own choice for the course requirements in this section, but will not reduce the total number of credits required for the degree. If you take little or no foreign language or mathematics before college, you will need more than 120 credits to graduate. For example, you could take 6 credits of English, 2 credits of mathematics, and 14 credits of foreign language in college to meet the requirements of this section. Only 14 of these 22 credits, however, would count toward the total of 120 required credits.

2. You are required to elect English composition (6 credits), unless partially exempt, in your freshman year, and you should meet the mathematics—logic requirements and 6 to 8 credits of the foreign language requirement by the end of your sophomore year.

3. Foreign language credits in 1-C and 2-A may include both high school and college work. One unit (one year) of high school foreign language is equivalent to 4 course credits. You may also meet these requirements by attainment examinations.

If as a result of a placement examination or the recommendation of the department, you are asked to repeat a foreign language course, you may receive one semester's credit for repeated work. This provision is effective for students who enroll for the first time on any campus of the University in September 1967 or later, for the College of Letters and Science on the Madison campus. It has been in effect since September 1965 on the Milwaukee campus. Please see *L&S Guidelines* (Madison campus) or the UW-Milwaukee catalog for a full explanation.

4. In Section 2 you are required to continue with either foreign language or mathematics, previous achievement in either determining the additional credits required.

5. Not more than 10 credits from any one department may be counted in Section 3. No course can be counted toward more than one sub-group. Courses acceptable toward satisfaction of the requirements in Section 3 are identified as humanities, social studies, or natural sciences.

The following distribution shows some of the courses which fall into the areas of humanities, social studies, and natural sciences. The two Colleges of Letters and Science (Madison and Milwaukee) differ slightly in categorizing these courses as follows:

MADISON CAMPUS (See Madison timetable for complete listing)

Humanities

Comparative Lit: 107, 108
 English: 204, 205, 206, 207, 208, 209,
 210, 211, 212, 217, 218
 French: 221, 222
 German: 220, 221, 222
 History: 111, 112, 150, 151, 259, 269

Music: 105, 106, 201, 202, 203, 204,
 211, 212
 Philosophy: 226, 253, 258, 520
 Spanish: 221, 222, 228, 229
 Speech: 130, 160, 241, 242, 343, 344

Social Studies

Anthropology: 100, 200, 202, 204
 Economics: 101, 103, 104, 330
 Geography: 110, 115
 History: 115, 119, 120, 121, 122, 123,
 124, 127, 201, 202, 255, 257,
 283, 284, 355
 Journalism: 201
 Philosophy: 101, 102, 103, 181, 201,
 241, 254

Political Science: 101, 105, 106, 175,
 183, 185, 201, 213,
 222, 223, 243, 252,
 282
 Psychology: 201, 202, 205, 206, 210,
 280, 281, 507, 530
 Sociology: 101, 102, 225, 260, 278, 530
 Speech: 250

Natural Science

Anthropology: 105, 201, 205
 Astronomy: 100, 200
 Bacteriology: 101
 Botany: 100, 110, 120, 130, 151, 152,
 160, 200, 240, 400
 Chemistry: 101, 102, 103, 104, 105,
 106, 107, 108, 109, 110,
 181, 221, 223, 283, 341,
 342, 343, 344, 345, 346

Geology: 100, 101, 102, 145, 443
 Geography: 120, 121, 122, 123, 124,
 125, 220, 240
 Physics: 101, 102, 103, 104, 107, 201,
 202, 207, 208
 Physiology: 101, 104
 Psychology: 225, 285
 Zoology: 101, 151, 152, 160, 180, 300,
 430

PROGRAMS OF STUDY

58 MILWAUKEE CAMPUS (See Milwaukee timetable for complete listing)

Humanities

Comparative Lit: 107, 108
English: 204, 205, 206, 207, 208, 209,
210, 211, 212, 217, 218
French: 221, 222
German: 221, 222
History: 111, 112
Philosophy: 253, 520
Spanish: 221, 222
Speech: 130, 160

Social Studies

Anthropology: All courses except 201
Economics: 101, 103, 104, 330
Geography: 110, 115, 514
History: 115, 119, 120, 201, 202, 255,
355
Philosophy: 101, 102, 103, 201, 241
Political Science: All courses
Psychology: 201, 202, 205, 507, 530, 560
Sociology: All courses

Natural Science

Anthropology: 201
Astronomy: 100, 200
Bacteriology: 101
Biochemistry: All courses
Botany: All courses
Chemistry: All courses
Geography: 120, 123, 124
Geology: All courses
Mathematics: All courses except 107
and 115
Philosophy: 211
Physics: All courses
Zoology: All courses

SUMMARY OF MAJORS IN LETTERS AND SCIENCE

The following outline summarizes the majors available in the College of Letters and Science on the Madison and Milwaukee campuses. It is provided to help you select an area of study and plan a program accordingly before transferring. The major is selected in the junior year. Programs offered in graduate school are not included. Explanation of symbols:

A—Program is available P—Program is offered in part N—Program is not available

MAJORS	MADISON	MILWAUKEE	59
African Languages and Literature	A.....	N.....	
American Institutions	A.....	N.....	
Anthropology	A.....	A.....	
Arabic	A.....	N.....	
Art History	A.....	A.....	
Asian Studies	A.....	N.....	
Bacteriology	A.....	P.....	
Biochemistry	A.....	N.....	
Biological Aspects of Conservation	A.....	A.....	
Botany	A.....	A.....	
Chemistry	A.....	A.....	
Chinese	A.....	N.....	
Classics	A.....	N.....	
Communicative Disorders	A.....	N.....	
Comparative Literature	A.....	A.....	
Computational Methods and Statistics	A.....	N.....	
Computer Sciences	A.....	N.....	
Economics	A.....	A.....	
English	A.....	A.....	
French	A.....	A.....	
French Area Studies	A.....	N.....	
Geography	A.....	A.....	
Geology	A.....	A.....	
German	A.....	A.....	
Greek	A.....	P.....	
Hebrew Studies	A.....	A.....	
History	A.....	A.....	
History of Culture	A.....	N.....	
History of Science	A.....	N.....	
Humanities	A.....	N.....	
Ibero-American Studies	A.....	N.....	
Indian Studies	A.....	N.....	
International Relations	A.....	A.....	

PROGRAMS OF STUDY

60 MAJORS	MADISON	MILWAUKEE
Italian	A	P
Japanese	A	N
Journalism	A	A
Latin	A	A
Linguistics	A	A
Mathematics	A	A
Medical Microbiology	A	N
Medical Science (Pre-Med)	A	A
Meteorology	A	P
Molecular Biology	A	N
Music Major	A	N
Music—Applied	A	See Fine Arts
Music—History & Theory	A	See Fine Arts
Music—School Music	A	See Fine Arts
Philosophy	A	A
Physics	A	A
Polish	A	P
Political Science	A	A
Portuguese	A	P
Psychology	A	A
Russian	A	A
Scandinavian Studies	A	N
Social Welfare	A	A
Sociology	A	A
Spanish	A	A
Speech	A	A
Statistics	A	P
Zoology	A	A

SPECIAL LETTERS AND SCIENCE PROGRAMS

The two Colleges of Letters and Science offer several special programs. The degree requirements of these programs differ somewhat from the requirements for the general B.A. degree in the College of Letters and Science. You may begin

work at your Campus in the special programs described below.

Applied Mathematics and Engineering Physics—Madison and Milwaukee

This special program gives integrated basic training in related areas of mathematics, physics, and engineering science. It prepares you for entry into the field of industrial research and provides a foundation for graduate work in mathematics, mechanics, physics, and some fields of engineering. A strong high school background in mathematics is essential before entering this program.

During your first two years of college, you should take freshman English, engineering graphics (for Madison only), physics, chemistry, mathematics and foreign language. The foreign language requirement, not as extensive as that for the general B.A. degree, requires a minimum of 8 college credits or two years in high school of German, Russian, French, or Italian. If you plan to do graduate work, you should have a reading knowledge in at least two of these languages.

Chemistry Course—Madison and Milwaukee

If you are interested in chemistry, you may follow the regular requirements for the B.A. degree with a major in chemistry, or you may enroll in the special chemistry course. The latter offers a broader basic training in chemistry.

The degree requirements for the chemistry course include: (1) a total of 130 credits for graduation; (2) Chemistry 107 taken concurrently with Chemistry 104; (3) Mathematics through Mathematics 223; (4) German through German 204. A physics course is strongly recommended.

Admission to the junior year requires a grade-point average of 2.5 for the first two years' work in all chemistry, mathematics and physics courses.

If you plan to do graduate work in chemistry, you should take a year of French or Russian.

Journalism—Madison and Milwaukee

This program covers the broad field of mass communications and aims to give you a broad cultural base as well as technical competence in your profession.

In addition to taking basic required courses in news writing, reporting and editing, you may elect work in such fields as magazine writing, advertising, radio and television, public relations, community press, communications media and public opinion, and the development of the press here and abroad.

PROGRAMS OF STUDY

62 On the Madison campus, a total of 124 credits is required for graduation, including 30 credits in journalism and at least 40 of the remainder in social sciences or English. If possible, you should take Journalism 201, 203, and 204 at the Center System Campus. You should also complete the following requirements during your freshman and sophomore years: (1) an introductory course in sociology, psychology or anthropology; and (2) three introductory courses in political science and economics (two courses in one field, and one course in the other). Before or soon after entering the University, you should become a competent typist.

You must be a junior and have a minimum grade-point average of 2.3 in all work carried to enter the School of Journalism on the Madison campus. After admission to the School of Journalism, you must maintain a grade point average of not less than 2.5 in journalism and advertising classes, and not less than 2.0 in other classes. If you fail to maintain the grade-point requirements, you will be advised to withdraw.

A major in Journalism is also offered in the College of Letters and Science at Milwaukee.

Medical Technology—Madison and Milwaukee

This special four-year program, leading to the B.S. degree, emphasizes a broad background in the physical and biological sciences. Clinical subjects are taught in the senior year. The course is fully accredited by the Council on Medical Education and Hospitals of the American Medical Association. Upon graduation you are eligible to apply for board certification as medical technologist (ASCP).

Course requirements which should be completed in the first two years include: (1) foreign language—two years of one foreign language in high school or two semesters in college, or a combination; (2) Chemistry 103, 104, 221, 341, and 342; (3) Freshman English, 6 credits of English literature, and 3 credits of English 201 or 203; (4) Mathematics 101 or 112, if you had less than 3 years of high school mathematics; (5) one year of physics; (6) Physiology 101 or 104; (7) Zoology 101 and 350 (Zoology 350 is offered during Summer Sessions on the Madison campus).

You must accumulate 90 credits with a grade-point average of 2.3 for admission to the senior year at Madison, and 2.0 at Milwaukee.

Music—Madison (see Fine Arts, Milwaukee)

The University offers three music programs: (1) the applied music major which prepares you for musical performance and studio teaching; (2) the music history and theory major, which prepares you for specialization in composition and arranging, or in music history and literature; and (3) the music education major, in which you register jointly in the School of Music and the School of Education. This program trains you for teaching music in the schools with emphasis in either the instrumental or vocal field.

Each music program is described fully in the Madison and Milwaukee campus catalogs. In general, you are expected to be proficient in music before entering the University. If you are majoring in applied music, you must take Freshman English, 6 credits of United States history, and an additional 6 credits in either history or English. If you are majoring in music history and theory, you must take Freshman English and 6 credits in United States history. Both majors require work in foreign language with a minimum of 14 credits or its equivalent in one of these languages—French, German, Italian or Spanish. Music education majors are required to take a minimum of 40 credits in liberal studies to include 12 credits of English, 6 credits of science, 6 credits of social studies and either the intermediate mathematics or intermediate foreign language requirements as stated in Section 1 of the Requirements Work Sheet (p. 52 .)

The Bachelor of Music degree requires a minimum of 130 credits, an overall grade-point average of 2.0, and a 2.5 average in music courses. The program in music education requires 130 credits and 325 grade points for graduation. A grade-point average of 2.5 is necessary for admission to the School of Education.

Physical Therapy—Madison

The four-year special program in physical therapy, fully accredited by the Council on Medical Education of the American Medical Association, is administered jointly by the College of Letters and Science and the Medical School.

Academic work is followed by three months of clinical work in approved hospitals under the supervision of the faculty; a certificate is given by the Medical School at its completion. Although no academic credit is given for the work done during the summer months, it is required for completion of the program.

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A total of 124 credits is required for graduation. In your first two years you should meet the following course requirements: (1) English—either 12 credits of English, or 6 credits of English and 6 credits of history (either choice must include Freshman English; (2) either (a) foreign language—the equivalent of 14 credits in one foreign language, or (b) 14 credits of social science; (3) psychology—a total of 10 credits (Psych 201 and 507 may be taken at the Center System Campus); (4) science—a total of 43 credits, including courses in chemistry, physics, and zoology; (5) speech—an introductory speech course. You are expected to maintain at least a 2.5 overall grade-point average.

AGRICULTURAL AND LIFE SCIENCES—MADISON

The College of Agricultural and Life Sciences offers a Bachelor's Degree in five broad curriculum options: Natural Science, Agricultural Business and Industry, Social Science, Agricultural Production and Technology, and Natural Resources. Graduation from the College of Agricultural and Life Sciences prepares you for a career in research, business, industry, education, technical and public services, conservation and recreation, communication, and production farming. Nearly 60 different specific majors are available to undergraduates in the College of Agricultural and Life Sciences at the University of Wisconsin through its 22 instructional departments under the five different curriculum options. The University of Wisconsin offers a Pre-Forestry and a Pre-Veterinary Science Degree but does not offer undergraduate degrees in these areas. However, you may begin your college education at a Center System Campus or on the Madison campus and then transfer to a school offering degrees in these two fields.

The College of Agricultural and Life Sciences requires at least 124 credits and 248 grade points for a degree. Regardless of the field in which you specialize, you will be expected to meet the following minimum requirements generally within your first two years:

- (1) Introductory course in Chemistry—Chemistry 103, 105, or 109
- (2) Economics 101 or 103
- (3) English 101 and 102 unless excused by examination.
- (4) A minimum of two to three credits in a written or spoken communication course such as Speech 101 or 105—Journalism 203 or English 201.

Details about requirements for major fields under each of the college curriculum

options is available upon request from the Office of Resident Instruction, 116 Agricultural Hall, College of Agricultural and Life Sciences, Madison, Wisconsin. Students are encouraged to visit or correspond with the Office of Resident Instruction to determine the most opportune time for transfer in order to complete degree requirements on schedule.

**UNDERGRADUATE MAJORS AND PROGRAMS AVAILABLE
IN THE COLLEGE OF AGRICULTURAL AND LIFE SCIENCES
UNIVERSITY OF WISCONSIN — MADISON**

Department	Curriculum Options				
	Natural Science	Production & Technology	Social Science	Business & Industry	Natural Resources
Agricultural Economics		X	X	X	X
Agricultural Engineering				X	
Agr. & Ext. Education		X	X	X	X
Agricultural Journalism	X		X	X	X
Agronomy	X	X		X	X
Bacteriology	X	X			X
Biochemistry	X				
Dairy Science	X	X		X	
Entomology	X				
Food Science & Industries	X	X		X	
Genetics	X				
Horticulture	X	X		X	
Landscape Architecture				X	X
Meat & Animal Science	X	X		X	
Plant Pathology	X				

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Department	Natural Science	Production & Technology	Social Science	Business & Industry	Natural Resources
Poultry Science	X	X		X	
Rural Sociology			X		X
Soils	X	X		X	X
Forestry					X
Veterinary Science (A two-year Pre-Veterinary Program and grad. educ.)					
Wildlife Ecology	X				X

Interdisciplinary majors offered within the College of Agriculture in addition to majors under the curricular options include:

Conservation Major	Recreation Major
Agriculture & Naval Science	Pre-Theology Program

Also available is a Farm Short Course and a two year Middle Course.

BUSINESS

School of Business, Madison

1. The Bachelor of Business Administration (BBA) degree curriculum is based upon a broad liberal arts program combined with courses in business and economics. Students enter the School of Business at the beginning of the junior year. To be eligible, you should have met, in the first two years, the major portion of the following course requirements: (1) Completion of English 102 plus a semester of English, American, Comparative or Contemporary Literature, and at least 2 from English 201, 204, Speech 101 or Business 216 (Business Communication); (2) Mathematics 221 and 222 or Math 107 and a semester of calculus; (3) 8 credits of natural science with laboratory; (4) Computer Science 132; (5) Business 200 and 201; (6) Economics 103 and 104; (7) 9 credits of humanities and social studies. A grade-point average of at least 2.3 is required for admission. You may be admitted to the School of Business if you have junior standing and the required grade-

point average even though you have not met all the course requirements recommended for entry.

2. In your last two years, you may choose a major from the following programs leading to a BBA degree: Accounting; Actuarial Science for a career in insurance; Finance, Investments and Banking; International Business; Marketing, including foreign trade and purchasing; Organization and Management, including personnel and industrial relations; Public Utilities and Transportation; Quantitative Analysis including statistics, operations research, and data processing; Real Estate and Urban Land Economics; Risk Management for a career in insurance. Special combined programs are available in business and engineering; business and law; construction administration; and business and education (teacher preparation).

3. Please see the 1968-70 School of Business bulletin for a suggested program for the freshman and sophomore years as well as for information concerning the humanities and social studies credits required for the BBA degree, plus detailed course descriptions of the business courses. The curriculum and the above requirements for entrance are effective for students who began their college careers in the summer of 1968 or later. Students enrolled in college before that may follow this new curriculum or the one described in the 1966-68 School of Business bulletin.

School of Business Administration, Milwaukee

A program leading to a BBA degree is offered at Milwaukee with professional options available in the following areas: Accounting, Finance, Industrial Relations, Marketing, Production Management, Quantitative Analysis, Real Estate and Urban Development, and special options for specific needs of students.

For admission to the School of Business Administration at UWM, it will be necessary to have junior standing (a minimum of 58 credits) and a grade-point average of at least 2.0 on all work attempted. If you plan to work toward a degree in business administration at UWM, it is suggested that during your freshman and sophomore years at a Center System Campus, you try to complete as much of the following as possible:

- 1) Completion of the freshman English requirement;
- 2) 12 credits in humanities and fine arts;

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- 68 3) 12 credits in social sciences, at least 6 credits of which should be in anthropology, sociology, or psychology;
- 4) Economics 103 and 104;
- 5) 6 credits in a physical or natural science—astronomy, botany, chemistry, geography, geology, physics or zoology.

It is recommended that you refer to the catalog of the UWM School of Business Administration for the specific requirements leading to the BBA degree. Particular attention is directed to the mathematics and accounting course requirements, part of which may be completed at your local Campus.

It is expected that on completion of sophomore work at the freshman-sophomore Campus, you will be admissible directly to the UWM School of Business Administration.

SPECIAL PROGRAMS

A combined program in business and engineering leads to a Bachelor of Business Administration degree from the School of Business and a Bachelor of Science degree from the College of Engineering. This combination program requires planning early in your college career. You should follow the engineering sequence as a freshman and sophomore and add a year of economics (Economics 103 and 104) and a year of accounting (Business 200 and 201) to your program.

A combined program in business and law leads to degrees in both business administration and law. After completing 96 credits in the School of Business, provided you have a 2.75 grade-point average, you may apply for admission to Law School. You must earn 30 credits of law to complete degree requirements.

The special program in construction administration has been developed with the cooperation of the College of Engineering and the College of Agricultural and Life Sciences. Its goal is to train you for a career in the home and farm building field, either in the actual construction operations or in the distribution of building materials and equipment. You should elect the following courses during your first two years: (1) English through 102; (2) mathematics through Mathematics 222; (3) Physics 201 and 202; (4) Economics 103; (5) Engineering mechanics 101; (6) a course in engineering graphics; (7) Business 200 and 201. You may be admitted to the program after completing at least 58 credits with a grade-point average of at least 2.3 on all work carried.

EDUCATION—Madison

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The School of Education offers a variety of programs. You may choose to teach at the elementary level or to teach such academic subjects as English, history, chemistry or special fields such as art, agriculture, physical education, home economics, journalism, music, speech correction or business. In addition to providing training for elementary and secondary teachers, the School of Education also includes non-teaching programs in applied art, occupational therapy, recreation leadership and dance.

Admission to and graduation from all programs which lead to a teacher's certificate in the School of Education require a 2.5 cumulative grade-point average. Within the Secondary program certain academic areas (English, history, political science, and foreign languages) require for certification a 2.75 grade-point average in courses taken in that area. Certain nonteaching majors within the School of Education require a 2.0 for admission and graduation. In addition to meeting the grade-point requirements, students going into the elementary program must have attained sophomore standing (24 credits) and those going into the secondary program must have attained junior standing (58 credits). During the freshman and sophomore years those planning to complete the secondary program will generally follow the basic B.A. degree program in the College of Letters and Science. Those preparing to become elementary teachers will follow the *modified* B.A. sequence as outlined in the Elementary section of the School of Education catalog.

As a sophomore at a two-year Campus definitely planning to go into the Elementary program at Madison, you may want to choose one or two courses from the following three: Math 115, Art 100, Speech 130.

Students majoring in art or physical education normally take professional courses during their freshman and sophomore years. Please consult the course offerings at the Campus you plan to attend, as some of these courses are offered.

Please note that some courses needed for a degree in the School of Education will not count toward degrees in other Colleges of the University of Wisconsin—Madison or on other campuses. You will be wise not to select these courses until you are reasonably sure that you want an Education major and that you will have the necessary grade point required for admission.

PROGRAMS OF STUDY

70 All teachers are expected to present evidence of ability to speak well. The School of Education has a proficiency requirement which can be met in one of several ways, typically by enrolling in a speech skills course such as Speech 101, 230 or 232.

The preceding description of School of Education programs is very general and does not include all programs. If you are at all interested in the education program at the Madison campus, please check the School of Education catalog for additional programs and for specific requirements of each program.

EDUCATION—Milwaukee

The School of Education, Milwaukee, offers curricula for the preparation of teachers and administrators and of students specializing in allied fields. There is a range of different study programs, depending upon which field is chosen for specialization.

Art Education

A curriculum leading to the B.S. degree and certification for teachers and supervisors of art is offered. (Students also may choose to receive the Bachelor of Fine Arts degree and enroll in the School of Fine Arts.)

Business Teacher Education

In cooperation with the UWM School of Business and the Madison Schools of Education and Business, students may take all of the work in the Business Teacher Education curriculum on the Milwaukee campus except the sixth and seventh semesters, which must be completed on the Madison campus.

Elementary Education

Two undergraduate curricula are offered for the preparation of elementary school teachers leading to the B.S. degree: (1) a curriculum to prepare teachers for nursery, kindergarten, and primary grades (one, two, and three;); (2) a curriculum to prepare teachers for grades one through six.

Exceptional Education

The Department of Exceptional Education offers three undergraduate curricula for training teachers of children who so deviate from the average as to require

special educational procedures which cannot be carried out in regular classrooms. The curricula lead to the B.S. degree and satisfy the state certification requirements for teaching in the special fields of: (1) education of the deaf and hard of hearing, (2) education of the mentally retarded, and (3) speech pathology and audiology.

Junior High School Education

A curriculum leading to the B.S. degree for those interested in preparation for teaching at the junior high school level is offered. Principal teaching areas are language arts, social studies, mathematics and science although other fields are available.

Library Science

An 18-credit minor in library science is offered to prepare students for teacher-librarian positions and to meet the licensing requirements of the state of Wisconsin.

Music Education

A curriculum leading to the B.S. degree and certification for teachers and supervisors of music is offered. (Students also may choose to receive the Bachelor of Fine Arts degree and enroll in the School of Fine Arts.)

Occupational Therapy

The first two years of the course in occupational therapy are offered in the School of Education. The junior and senior years are taken on the Madison campus if the student is seeking a University of Wisconsin degree.

Physical Education

Students interested in the area of physical education are able to initiate study toward either a major or minor. The four-year program for majors in physical education provides an opportunity for men and women to qualify for certification as instructors or supervisors in the field of physical education at both the elementary and secondary levels.

Students wishing to minor in physical education must be enrolled in a

PROGRAMS OF STUDY

- 72 teacher preparation program other than physical education. Students with a minor in physical education should note that certification to teach is given only for a period of seven years; should they wish to remain in the field of physical education they must complete a major.

Recreation Major

This major is offered to students interested in becoming part of this growing and necessary public service. Recreation majors should also complete a major in another teacher program and qualify for certification to teach.

Secondary Education

This program leads to the B.S. degree and certification to teach most of the usual high school subjects, with the option of choosing a major teaching field and a minor teaching field or one broad field area, and at either the junior high school or senior high school level.

Theater Arts

A curriculum leading to the B.S. degree and certification is offered. (Students may also choose to receive the Bachelor of Fine Arts degree and enroll in the School of Fine Arts.)

ENGINEERING—Madison

The engineering program provides opportunity for a thorough education in mathematics, the physical sciences, engineering principles, and the application of these fundamentals to problems encountered in engineering practice. After a solid foundation of fundamentals, you may specialize in one of these fields on the Madison campus:

Chemical Engineering	Engineering Mechanics	Metallurgical Engineering
Civil Engineering	Industrial Engineering	Mining Engineering
Electrical Engineering	Mechanical Engineering	Nuclear Engineering

If you wish to specialize in Aeronautical Engineering, you may begin by following the suggested program for Civil, Electrical or Mechanical Engineering or Engineering Mechanics, depending upon your particular interest in the field, i.e., power plants, electrical systems or airframe structures. Combined courses are available in Engineering and Business, Engineering and Law, Engineering and

Medicine, Agricultural Engineering and Civil or Mechanical Engineering, Civil Engineering and City Planning or Construction Administration. Students interested in combined programs should plan them with their adviser early in their college careers. A Bachelor of Science degree in engineering can be used for admission to Law or Medical School or a graduate program in the School of Business.

As a freshman in engineering, you will complete the Freshman English requirement, Chemistry 102, or 103 and 104, and Mathematics 221 and 222. A thorough high school background in mathematics is essential since Mathematics 221 carries the following prerequisites: 2 years of algebra; 1 year of plane geometry; and a year of advanced mathematics. If you do not have sufficient background for Mathematics 221, you may take more elementary courses at the Campus, but they will not carry credit toward your degree.

In addition, if you plan to specialize in Chemical or Nuclear Engineering or Engineering Mechanics you should take Chemistry 107. If Civil, Industrial, Mechanical or Mining Engineering or Engineering Mechanics is your choice, you must take one or two courses in Engineering Graphics. During your sophomore year you will take Physics 201 and 202 along with mathematics courses.

Almost every curriculum in the College of Engineering requires a minimum of 15 elective credits in liberal studies such as anthropology, history, economics, political science, or foreign language. You may take some or all of these courses in your first two years.

Since the requirements, particularly the electives, vary for the different programs in engineering, you should consult the Campus Adviser to Students when planning your complete program.



PROGRAMS OF STUDY

74 **APPLIED SCIENCE AND ENGINEERING—Milwaukee**

The College of Applied Science and Engineering at The University of Wisconsin—Milwaukee offers a four-year program leading to the B.S. degree with professional options in Electrical Science, Energy Conversion, Engineering Mechanics, Engineering Science, Materials Science, Mechanical Design, and Structural Engineering. The program is planned to provide the student with:

1. Sound training in the basic sciences of mathematics, physics and chemistry.
2. A well organized common core of engineering science courses.
3. Integration of social and technological concepts.
4. An introduction to engineering design concepts that will serve to prepare the student for a specific field or will pave the way for further study and specialization through a graduate program.

The first two years of the program, most or all of which can be completed at the University of Wisconsin Center System Campuses, are built around a common core of basic sciences with some required social study and humanities electives to add perspective. Portions of the sophomore year, as well as the junior year, emphasize a common core of fundamental applied engineering science courses. The last half of the junior year and the senior year permit a degree of specialization in one of the engineering option areas listed above.

For further information consult the College of Applied Science and Engineering supplement to the 1967-69 UWM Bulletin.

COOPERATIVE ENGINEERING EDUCATION—Madison and Milwaukee

Cooperative education is an educational program wherein regular periods of campus study (semesters or summer sessions) are alternated with training periods in a cooperating industry. The student benefits from early and planned experiences in engineering work in industry and also obtains a source of income to help carry him through his schooling. Many companies are supporting this program.

The requirements for participation are:

1. The student must be completing or have completed his freshman year in the College of Engineering at Madison or College of Applied Science and Engineering at Milwaukee with a satisfactory grade point average.

2. The selection of students will be made by the participating companies after suitable interviews.

3. The student's continuation in the program would be dependent upon the maintenance of a satisfactory academic and work record.

4. The student's senior year is to be conducted entirely on campus without an intervening work period.

Students who are interested and desire more detailed information should contact the Cooperative Education Program Coordinator.

During work periods the student registers for "612-001-8—Cooperative Education Program, I, II; 0 cr." at Madison or "184-001-6 ASE Cooperative Work Period, I, II; 0 cr." at Milwaukee.

FINE ARTS—Milwaukee

The School of Fine Arts, composed of the Departments of Art, Dance, Music, and Theatre Arts, offers four-year programs leading to the degree of Bachelor of Fine Arts. In addition to specialization in any of the four departments, the School of Fine Arts offers a degree in Inter-Arts. The Inter-Arts degree requires that courses be taken in your choice of three out of the four departments. Courses in Creative Writing are also offered in the School of Fine Arts.

The four departments of the School of Fine Arts offer the following degree programs:

ART

Majors in: Art Education, Painting, Sculpture, Graphics, Art Metal, Ceramics, Weaving, and Advertising Design.

DANCE

Majors in: Professional Dance and Dance Notation.

MUSIC

Majors in: Piano or Organ, Voice, Instrumental, Theory and Composition, Music History, Music Therapy, Music Education (Vocal, Instrumental, or Combination).

PROGRAMS OF STUDY

76 THEATRE ARTS

Majors in: Acting and Directing; Design and Technical Theatre; History, Literature, and Criticism; Playwriting and Directing; Theatre Arts Education.

Teaching programs in Art, Music, and Theatre Arts, are arranged in cooperation with the School of Education. You need a 2.5 cumulative grade-point average and 58 earned credits to be admitted to a certification program or the School of Education. In the education programs, you have a degree option: you may choose to receive a Bachelor of Fine Arts degree with certification from the School of Education; or a Bachelor of Science degree in Education, from the School of Education.

The School of Fine Arts requires 130 credits for graduation with the Bachelor of Fine Arts degree. Of the 130 credits, 45-50 must be taken in the basic core curriculum of academic studies. The required courses are: (1) English through 102; and (2) 27 credits from courses in the humanities, social sciences, science or mathematics. Nine credits are generally required in each group area. If foreign language is taken, 1-5 credits may be counted as part of the requirement in social sciences. The School of Fine Arts offers 12 credits in the basic core curriculum. The Arts and Mankind, a course that is 3 credits per semester, is taken in the freshman year. The Arts: Theory and Criticism, 3 credits per semester, is taken in the senior year.

For students going into any of the teaching programs, 3 credits in speech is required plus 6 credits in United States history. This total of 9 credits fulfills the required course in the social science area.

FAMILY RESOURCES AND CONSUMER SCIENCES (formerly Home Economics) —Madison*

The School of Family Resources and Consumer Sciences offers many areas of professional specialization. The focus of undergraduate programs may be in scientific, educational, aesthetic, and/or business services. The degree of specialization varies with the *purpose* of the profession.

All programs are related by the common need for understanding the family,

*Freshman and sophomore years of work are offered at UW-Milwaukee.

stated in the School's philosophy as "the simultaneous functioning of human beings as individuals and as members of a family."

You may choose a major from the following areas:

Foods and Nutrition

- Experimental Foods
- Hospital Dietetics
- Institution Management
- Nutrition

Home Economics Education and Extension

- Home Economics Education
- Home Economics Journalism

Home Management and Family Living

- Child Development and Preschool Teaching
- Preschool & Kindergarten Education
- Family and Consumer Economics

Related Art

Textiles and Clothing

- General Textiles and Clothing
- Retailing
- Textile Chemistry

Inter-Departmental Majors

- Apparel Design
(Related Arts and Textiles and Clothing)
- General Home Economics

The following courses may be taken in your freshman and sophomore years to meet requirements regardless of your major in home economics: (1) Freshman English; (2) 6 credits of English literature; (3) Economics 101 or 103; (4) Psychology 201; (5) Sociology 101; (6) Chemistry 103 or 108; (7) Physiology 106-107.

You may also elect additional courses from the humanities, the social sciences, and the natural sciences, your course selections being determined by the major you choose. Some majors will require courses in mathematics if you do not have a mathematics proficiency through Mathematics 106, or higher, depending on the major.

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- 78 If you are registered in a Campus which does not offer introductory courses in home economics, you may wish to transfer to the Madison campus at the end of your freshman year. This will permit a more flexible schedule during the remainder of your college program. If you wish assistance from UW-Madison in your program planning, contact Mrs. Kathryn Beach, 140 Home Economics, 262-2608.

NURSING—Madison and Milwaukee

You may begin one of two programs of study for nursing at a Center System Campus.

1. The School of Nursing of The University of Wisconsin, Madison, and the School of Nursing of The University of Wisconsin-Milwaukee both offer a program in nursing. Both programs lead to a Bachelor of Science degree in nursing and prepare the high school graduate with no previous experience in nursing for registration as a professional nurse. They are both four years and two summer sessions in length. One or two years may be taken at your two-year Campus; the remainder is offered at the Schools of Nursing on the Madison and Milwaukee campuses. The length of time spent at your local Campus will depend on the courses offered there and the sequence of courses offered at Madison or Milwaukee. You should consult the School of Nursing on the campus to which you plan to transfer prior to or early in your freshman year for assistance in program planning.

Required courses at Madison are listed in the School of Nursing Bulletin; those required at Milwaukee appear in the University of Wisconsin-Milwaukee Catalog.

You will notice that each student must apply to the School of Nursing which he wishes to attend for admission to the last two years of the nursing program. This should be done at the beginning of the sophomore year. Admission to the last two years will be based on qualifications for nursing, educational facilities of the School, and other relevant factors.

Registered nurses who wish to obtain a bachelor's degree will be admitted to the programs described above. Advance standing for previous work in a diploma or associate degree program may be earned through examination and satisfactory performance in an introductory required nursing course. The appropriate School of Nursing should be consulted early for program planning.

2. The second program leads to a diploma in nursing from a hospital school of nursing and prepares you for certification as a registered nurse.

This program is offered at two Center System Campuses in cooperation with local hospital schools of nursing. The cooperating Campuses and hospitals are the Marshfield—Wood County Campus—St. Joseph's Hospital, Marshfield, and Rock County Campus—Mercy Hospital, Janesville.

Your first year is spent at the local Campus, followed by two years at the hospital nursing school. At the Campus, you elect such courses as Freshman English, Chemistry 108, Zoology 101, Sociology 101, and Psychology 202. The curriculum varies slightly at each of the two schools.

If you wish to participate in this program, you must be admitted to the hospital nursing school and to the University. Separate application blanks are required by each of them. For further information, contact the director of the nursing school in which you are interested.



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80 OCCUPATIONAL THERAPY—Madison

This four-year program, offered jointly by the Medical School and the School of Education, is followed by a period of 36 weeks of internship in a hospital treatment program. The program qualifies you to evaluate and treat patients, using carefully selected and supervised activities such as manual and creative arts, daily living skills and recreational or industrial activities.

During your freshman and sophomore years, you will take the following courses: (1) Freshman English and 6 credits of literature; (2) Zoology 101; (3) Sociology 101; (4) Speech 105; (5) Art 131 and 132; (6) Physiology 104; (7) Psychology 201; (8) Chemistry 102 or Physics 105.

Please check the Occupational Therapy bulletin for additional courses which may be taken in the first two years.

To continue beyond the sophomore year, you must earn a grade of C or better in Occupational Therapy 221, Preclinical Practice, and have an overall grade-point average of 2.5 or better.

PHARMACY—Madison*

The pharmacy program furnishes a scientific foundation for the pursuit of the profession of pharmacy in all its branches. It prepares you not only to operate a drugstore, but also to be a hospital pharmacist, do pharmaceutical research, or enter some branch of the government service.

The University's pharmacy program offers the bachelor's degree after completion of five years of work—two years of pre-pharmacy and three years in the School of Pharmacy.

You should take the following courses during your freshman and sophomore years: (1) Freshman English; (2) Chemistry 102, 104, 343, 344, 345; (3) Math through 113; (4) Physics 105 and 106, or another year course in physics; (5) Botany 130 and Zoology 101; (6) Economics 103; and (7) electives to total 60 credits.

SOCIAL WELFARE—Milwaukee

The School of Social Welfare offers a bachelor degree for those students interested in a liberal education as well as the professional study of social work.

*Milwaukee offers the first year of the 3 year program.

You may apply for admission to the program after you have completed 58 credits. You should follow the general degree requirements for the College of Letters and Science-Milwaukee. The requirements of the major include a minimum of 20 credits in social welfare plus 30 credits in other social sciences; 15 of the 30 credits must be in one social science field and the other 15 in at least two other social sciences.

PROGRAMS FOR SENIORS OR GRADUATES—Madison

The following programs at The University of Wisconsin are offered at the senior level. As a beginning freshman, you should plan your program accordingly.

Law

You may apply for admission to Law School after completing three years of college or after earning a bachelor's degree. The latter plan gives you the benefit of a broader general background. This initial degree can be in any field. To enter Law School with a bachelor's degree, you must have earned a grade-point average of 2.5. If you wish to enter after completing three years of work in Letters and Science, Commerce, or Engineering, you must have a 2.75 grade-point average. All applicants must complete the Law School Admissions Test of the Educational Testing Service, Princeton, N.J.

Library Science

The Library School offers a professional program in librarianship in the Graduate School plus certain undergraduate subjects to meet preprofessional requirements for the graduate program and to satisfy certain minimum certification requirements for public school libraries in Wisconsin.

To enter Library School, you should present a bachelor's degree in one of the general undergraduate programs with preprofessional courses in library science elected during your junior and senior years.

You can find further information in the bulletins of the Library School, the College of Letters and Science, the School of Education, and the Graduate School.

Medicine

Prior to entry into Medical School, you will normally follow the program for the BA or BS degree in the College of Letters and Science. At the University of Wisconsin, pre-medicine is neither a major nor a classification; it is an intention. This

PROGRAMS OF STUDY

82 means that you take the special preparatory courses for medical school as a part of your major and general degree requirements. A very few students are accepted by medical schools after three years as undergraduates, but the safe thing is to plan on a regular major and a bachelor's degree.

Requirements for admission to the Medical School include the following:

- (1) Chemistry 102 and 104, 223, 343, 344. Chem. 345 is also suggested.
- (2) Physics 105 and 106.
- (3) Zoology 101 and an advanced course chosen from Zoology 430, 450, 560, 570, or 601-602.
- (4) Mathematics—one course.

Medical schools other than the University of Wisconsin may require a course in calculus, a second advanced biology course, or a chemistry course in quantitative analysis.

Applicants to medical schools should take the Medical College Admission Test. The UW Medical School bulletin will tell you when and where the test is given.

Social Work

You may elect social work as a major while working toward the B.A. degree in Letters and Science. The Graduate School offers professional courses in a two-year program leading to the master's degree.

OTHER PROGRAMS

You will be able to attend a Center System Campus and begin working toward a degree in architecture, dentistry, forestry, optometry, or veterinary science. You will want to plan your classes in accordance with the requirements of the institution where you plan to get your degree. If you are interested in architecture, you will want to take classes in art as well as engineering graphics and mathematics. A School of Architecture has been established at UW-Milwaukee. The other three fields—dentistry, forestry and veterinary science place a strong emphasis on science courses.

ARMED FORCES RESERVE OFFICER PROGRAMS

A two-year Reserve Officers' Training Corps (ROTC) program is offered to students, particularly transfer students, at the beginning of their junior year. If you

qualify for this program, you may obtain a commission in the U.S. Army, Navy, Marine Corps or Air Force by participating for two years on campus provided you attend a basic summer camp or cruise in the summer after your sophomore year.

An ROTC program is conducted on the Madison campus by each of the services and on the Milwaukee campus by the Army. These programs prepare you to enter into the military service of your choice in a leadership capacity as a commissioned officer.

To qualify for enrollment in the two-year program, you must:

- (1) Apply no later than March 1 of your sophomore year to a college or university offering such a program.
- (2) Apply for admission to the ROTC program.
- (3) Satisfactorily complete written aptitude examinations.
- (4) Satisfactorily pass the medical examination.
- (5) Be interviewed and recommended by an officer of the service of the ROTC in which enrollment is desired.
- (6) Attend a basic summer camp. (Information as to time and place will be given by the officer conducting the interview mentioned in 5 above.)

Advantages you will gain by participating in ROTC:

- (1) Development of qualities of leadership (organizing, motivating and leading others).
- (2) Pay of \$50 per month for twenty months of the two years in the on-campus ROTC program (\$1000) and additional pay for the summer camp(s) training.

Upon entering the advanced ROTC program you must agree to complete the two-year course of study, accept a commission, and serve on active duty for the period required by the service of your choice (Army, two years; Navy, three years; and Air Force, four years) followed by the number of years in the Ready and Standby Reserve forces to complete six years total service.

Reserve Officer Training Corps graduates desiring to earn graduate degrees currently may be deferred from active duty following commissioning until the work required for the degree is completed.

Further details about the ROTC programs may be obtained from the Departments of Military Science, Naval Science, or Air Force Aerospace Studies at The University of Wisconsin, Madison.

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84 JUNIOR YEAR ABROAD PROGRAMS

As a UW Center System student, you are eligible to participate in junior year abroad programs in France, Germany, India, Mexico, and a one semester exchange of undergraduate history majors with the University of Warwick, England. (Future programs in other countries are also being considered.) The French program at the University of Aix-Marseille and the German program at the University of Freiburg are open to all students; the Mexican program at the Institute of Technology in Monterrey is open only to engineering students. The Indian program at New Delhi, Hyderabad and Varanasi is offered to serious students of India from all over the country. The Warwick program is an exchange of undergraduate history majors. Wisconsin students will spend one semester at Warwick and an equal number of British students will take their places at Wisconsin. Although applications are accepted in mid-winter of the sophomore year for the following junior year, Center System freshmen are encouraged to contact the Office of International Studies and Programs to discuss their eligibility and courses which may be helpful. Basic language skills are best acquired at the high school level so that college years may be devoted to perfecting accents and fluency, and gaining additional cultural knowledge. Because competition for the limited number of openings grows keener each year, students with the most preparation and highest overall academic records will receive the greatest consideration.

Essential costs of a junior year abroad do not greatly exceed those of an academic year at Wisconsin. Students in the programs will be eligible to receive the same scholarships or loans normally available. In addition, a limited number of special scholarships are available.

Additional information on these programs may be obtained from the Office of International Studies and Programs, 6239 Social Science, The University of Wisconsin, Madison, Wisconsin 53706.

SUMMER SESSION

In addition to the spring and fall semesters, all campuses of the University offer an eight-week Summer Session from mid-June to mid-August. The Summer Session gives you the opportunity to shorten the number of years you spend in college, make up for credits you have lost, orient yourself to college life, or lighten

your fall class load. Many students combine summer study with a part-time job. You may carry as few as two or as many as eight credits and adapt a schedule to fit your needs.



COURSE OFFERINGS

86 On the following pages, you will find a list of courses offered at the Center System Campuses. Each course is not given at each Campus each semester. You may obtain an individual listing of current offerings from the Campus you plan to attend.

The number on the same line as the department headings, such as Anthropology, Art, etc., is called the "department number" and serves as a code number for the department or field of study listed.

AGRONOMY 132

- 100. Principles and Practices in Crop Production 4 credits**
Survey of plant science and applications to agronomic practice.

ANTHROPOLOGY* 156

- 100. General Anthropology 3 credits**

A course planned to give the student a general understanding of man in relation to the cultures he has built. Deals with man's evolutionary development, his capacities for society, and the development of the world's major cultures. Open to freshmen. May not be taken by those who have taken ILS 121.

- 200. Cultural Anthropology 3 credits**

Variations of human cultures throughout the world and the comparative study of human institutions. Prerequisite: Anthropology 100 or Anthropology 105 or sophomore standing.

- 204. Survey of World Ethnography 3 credits**

Ethnographic survey of representative primitive peoples and their cultures in recent times; major regions of the world considered in turn, with some attention to environmental factors and culture area classifications. Prerequisite: sophomore standing.

*Anthropology staff members at the various Campuses may offer additional courses in their areas of special competence. These courses will carry the same course number and content as the courses offered on the Madison campus and listed in the catalog of the College of Letters and Science, Madison.

ART 168

The following courses are open to letters and science students in the same way as regular letters and science subjects. Freshmen may elect Art 101, 102, 121,

122, 131 and 132; others may elect advanced courses if departmental prerequisites are met. (No more than 10 credits in art may be applied to a degree in Letters and Science.)

For elementary education majors Art 100 will satisfy the art requirement. Elementary Education majors intending to concentrate in art education as a field of specialization will want to use the following to satisfy this requirement: Art 101 or 131; 121 or 122; 151; 221 or 531.

100. Design and Drawing 2 credits

A broad course in the elementary principles of design in the space arts. Applications are made in the basic craft materials, drawing and printing media. It is a laboratory-lecture course that meets four hours per week. IT WILL NOT APPLY FOR A MAJOR OR A MINOR IN ART AND ART EDUCATION. Majors and minors in that field should take the 101-102 and 131-132 sequence instead. It will satisfy the art requirement for elementary education majors.

101. Basic Drawing I 3 credits

This course embraces basic linear perspective with an introduction to aerial perspective (light and shade). Emphasis is on the qualities of line, texture, and volume for its expressive qualities. Work is done from the actual object and the human figure. This course will substitute for Drawing and Painting 106 in the elementary education curriculum at UW-Milwaukee. The course meets for six hours per week as a workshop. Open to freshmen.

102. Basic Drawing II 3 credits

This course continues the study of aerial perspective as applied to more complex objects and pictorial situations. There is a thorough exploration of many drawing media. This course meets six hours a week in a workshop. It will satisfy the art portion of the creative arts requirement in the elementary education curriculum. Prerequisite: Art 101. Open to freshmen.

121. Art Survey I 2-3 credits

A lecture and discussion course covering the more expressive contemporary visual arts (painting, sculpture, graphic arts and popular arts) from the standpoint of the creative artist. There is a special emphasis on the interpretations that the creative artist makes of the sociological concepts of his time.

COURSE OFFERINGS

- 88 Basic aesthetic principles are also stressed. This course may be substituted for Art 104 in the elementary education curriculum at UW-Milwaukee. A field trip is a required part of the course. Open to freshmen.
- 122. Art Survey II** **2-3 credits**
A lecture-discussion course covering the functional contemporary visual arts, community planning and architecture, interior design, product development, and communication design with special emphasis on the study of these arts in relation to the creative artist and his times. Basic aesthetic and technological concepts are stressed. A field trip is a required part of the course. Open to freshmen.
- 131. Creative Design I** **3 credits**
This is a lecture-laboratory course that meets six hours per week. It deals with the basic elements of design in materials. This course will satisfy the art portion of the creative arts requirement in the elementary education course. Open to freshmen.
- 132. Creative Design II** **3 credits**
This is a lecture-laboratory course that meets six hours per week. It gives the student the basic elements of design as applied to three-dimensional materials. This course will satisfy the art portion of the creative art requirement in the elementary education course. Open to freshmen.
- 151. Introduction to Painting** **3 credits**
A lecture-laboratory course that meets six hours per week. Introduces the basic painting media—oil, water color, casein, etc. Prerequisite: Art 102.
- 161. Life Drawing and Anatomy I** **3 credits**
A study of the human figure as a basic skill for all art expression. Investigations are made into fundamental bone and muscle structures as they apply to the visual arts. It is a laboratory course that meets six hours per week and draws from the living model. Prerequisite: Art 102.
- 162. Life Drawing and Anatomy II** **3 credits**
A continuation of Art 161. A laboratory course meeting six hours per week. Prerequisite: Art 161.

- 171. Lettering** **3 credits**
 Proportions of the classical letter, contemporary layout and letter adaptations. Prerequisite: sophomore standing.
- 201. Watercolor I** **3 credits**
 A laboratory course exploring watercolor as a medium of expression. The course meets six hours per week. Prerequisite: Art 102 and 151.
- 202. Watercolor II** **3 credits**
 A continuation of Art 201. The course meets six hours per week. Prerequisite: Art 201.
- 211. Oil Painting I** **3 credits**
 A laboratory course exploring oil as a medium of expression. The course meets six hours per week. Prerequisites: Art 151 and 161.
- 221. Sculpture I** **3 credits**
 A laboratory course that meets six hours per week. Prerequisite: Art 132.
- 222. Sculpture II** **3 credits**
 A laboratory course that meets six hours per week. Prerequisite: Art 221.
- 261. Ceramics I** **3 credits**
 The introduction to the methods of pot production stressing slab, coil, and simple wheel construction. It is a laboratory course meeting six hours per week. Prerequisites: Art 131 and 132.
- 300. Graphic Arts: Introduction** **3 credits**
 Studio survey course in relief printing, intaglio, and lithography. History, slide print study, criticisms. Prerequisite: Art 102.
- 301. Graphic Arts: Relief Printing** **3 credits**
 Aspects of relief printing: wood cut, collage print, linoleum cut, and wood engraving; introduction to relief printing in full color. Prerequisites: Art 151 or consent of the instructor.

COURSE OFFERINGS

- 90 **302. Graphic Arts: Lithography** **3 credits**
Various aspects of lithography; direct drawing on the stone with crayon and tusche, transfer techniques, lithographic color processes. Prerequisites: Art 151 or consent of the instructor.
- 304. Graphic Arts: Etching** **3 credits**
Studio work in intaglio techniques, including dry point, engraving, and various etching procedures; fine printing is stressed. Prerequisites: Art 151 or consent of the instructor.
- 306. Graphic Arts: Serigraphy** **3 credits**
Materials and techniques of the silk-screen process; investigation of various types of stencils and resists used in serigraphy. Prerequisites: Art 151 or consent of the instructor.
- 441. Advanced Creative Design** **3 credits**
Experimentation in visual phenomena. Studio practice with lectures and readings in perception, design theory, philosophy, and history of design. Prerequisites: Art 131 and 132 and consent of instructor.
- 531. General Crafts** **3 credits**
Leatherwork, blockprinting, plastics, stenciling, paper mache, chip carving, and other crafts involving materials and processes. This is a laboratory session meeting six hours per week. Prerequisite: Art 132 and consent of instructor.
- 541. Materials Workshop (design)** **2-3 credits**
Exploration of materials as they apply to industrial production, emphasis on new applications for existing materials in three-dimensional problems in which both hand and power tools are used. This is a laboratory session that meets six hours per week. Prerequisite: Art 132 and consent of instructor.

BACTERIOLOGY 192

- 101. General Survey of Bacteriology** **4 credits**
An introduction to the fundamental principles and techniques of microbiology and their application to public health practices. The subjects of micro-

bial genetics, evolution, taxonomy, anatomy and metabolic pathways are discussed. Prerequisite: An introductory chemistry course. Chemistry 102 or 103 are recommended.

BIOCHEMISTRY 200

201. Survey of Biochemistry 3-4 credits

Lectures and demonstrations on the chemical make-up and metabolism of living organisms presented at an elementary level for non-science majors. Main emphasis on proteins, enzymes, nature of enzyme action, carbohydrates and fats as energy sources, metabolic processes involved in energy production, nucleic acids, biochemistry of genetic information transfer, and protein biosynthesis. Not accepted toward requirements for undergraduate or graduate degrees in biochemistry. May be taken for 4 credits where laboratory work is offered. Prerequisite: Chemistry 108 or equivalent.

BOTANY 208

100. Survey of Botany 3 credits

Structure, functions, and life histories of representative plants throughout the plant kingdom.

130. General Botany 5 credits

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. Illustrated with plant material.

160. Heredity (see Genetics 160 and Zoology 160) 3 credits

A general course in genetics designed especially for students not specializing in science; principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences; lecture, demonstration and discussion. Prerequisites: An elementary biology course and sophomore standing are recommended.

400. Classification of Cultivated & Native Plants 3 credits

Representative families and genera of flowering plants, use of keys and manuals, lecture and lab. Prerequisite: introductory course in botany.

COURSE OFFERINGS

92 BUSINESS 216

200. Introductory Accounting 3 credits

Fundamental principles of accounting; basic business terminology, techniques, and practices, books and accounts, and statements for retailing and wholesaling concerns; treatment and presentation of sole proprietorship, partnership, and introductory corporation accounts. Open to second semester freshmen; sophomore standing recommended. May not be included in credits for graduation in the College of Letters and Science.

201. Intermediate Accounting 3 credits

Accounting theory, principles, concepts, and procedures as they apply to balance sheet and income statement accounts; presentation and interpretation of financial reports, including the problems of terminology, manufacturing valuation, and analysis. Prerequisite: Business 200.

CHEMISTRY 224

102. General Chemistry 5 credits

Two hours of lecture; two hours of recitation; one three-hour laboratory or two two-hour laboratory periods. A course in general inorganic chemistry, beginning with the study of nonmetals and of the fundamental principles of chemistry.

103. General Chemistry 4 credits

Introductory college chemistry, the subject matter is equivalent to Chemistry 102, the introductory concepts being covered more rapidly and with different lab experiments. Serves as a prerequisite for Chemistry 104; lecture, lab, and discussion. Prerequisite: course in high school chemistry.

104. General Chemistry and Qualitative Analysis 5 credits

Two hours of lecture; two hours of recitation; one three-hour laboratory or two two-hour laboratory periods. Continuation of Chemistry 103. Prerequisite: Chemistry 102.

107. Numerical Problems in General Chemistry 1 credit

Open to all students who expect to take further courses in chemistry and required of chemistry course and chemical engineering students who cannot take Chemistry 110. Prerequisite: Chemistry 104 or concurrent registration.

108. General Chemistry 5 credits

For the student who will take only one semester of chemistry. Two hours of lecture; two hours of recitation; one three-hour laboratory or two two-hour laboratory periods. A one semester course with extra emphasis given to organic chemistry. Does not serve as a prerequisite for second semester general chemistry.

223. Elementary Quantitative Analysis 4 credits

Two hours of lecture, two three-hour laboratories. A course in the essentials of quantitative analysis. Analysis of naturally occurring ores and commercial materials. For chemistry course students, chemistry majors, and chemical engineering students. Satisfies requirements for Chemistry 221. Prerequisite: General Chemistry, including qualitative analysis.

341. Elementary Organic Chemistry 3 credits

Three hours of lecture. A one semester course for those students not planning to take Chemistry 345. Prerequisite: Chemistry 104, 106, 110, or consent of instructor.

343. Introductory Organic Chemistry 3 credits

Three hours of lecture. Covers the chemistry of the paraffin and unsaturated hydrocarbons, cycloalkanes, alkyl halides, poly-halogen compounds, alcohols, ethers, monocarboxylic acids and their derivatives, aldehydes, ketones, amines, carbohydrates, proteins, benzene, its homologues, halogenation, nitration, and sulfonation of aromatic hydrocarbons; aromatic amines; an introduction to resonance stereoisomerism and tautomerism. Prerequisites: Chemistry 104, 106, or 110.

344. Introductory Organic Chemistry Lab 2 credits

Six hours of laboratory. Includes the qualitative tests for elements found in organic compounds, the preparation, purification, and properties of a number of representative and important organic products, including ethylene, ethylene dibromide, butanone, ether, ethyl bromide, ethyl benzoate, acetyl chloride, acetic anhydride, aniline, acetanilide, nitrobenzene, sulfanic acid and methyl orange, and reactions of aldehydes, ketones, carbohydrates, and proteins. The principles and techniques involved with the various processes stressed. Prerequisite: concurrent registration in or credit for Chemistry 343.

COURSE OFFERINGS

94 **345. Intermediate Organic Chemistry 3 credits**

A continuation of Chemistry 343 covering derivatives of benzene and its homologues, polynuclear hydrocarbons and their derivations, polyhydroxy alcohols, polybasic acids, optical isomerism, further studies in proteins, sugars, starch, cellulose and its derivatives, heterocyclic compounds, synthetic drugs and alkaloids. Considerable emphasis is placed upon physiological applications of organic compounds. Prerequisite: Chemistry 343.

COMPUTER SCIENCES 246

132. Introduction to Computing Machines 3 credits

How computers work, communicating with computers, areas of application and significance, simple FORTRAN programming, elementary data processing and problem solving. An intensive and demanding survey course. Prerequisite: intermediate level high school mathematics or a course in college mathematics.

ECONOMICS 296

101. General Economics 3-4 credits

A study of the economic system; emphasis on problems and policies for students not planning to major in economics. Economic institutions; markets and prices; income distribution; business fluctuations; economic growth; comparative economic systems. May not be taken for credit by students who have had or are currently enrolled in Economics 103 or 104.

103-104. Principles of Economics 3 credits

Designed for students planning to major in economics and commerce or for students who desire a broad basic one-year course in economics. The first semester covers economic method, institutions, national income, business fluctuations, international trade, economic growth, and comparative economic systems. The second semester covers economic problems of individuals, firms, and industries, and emphasizes value, price, and distribution of income. Economics 103 may not be taken for credit by students who have taken Economics 101. Prerequisite for Economics 104: completion of Economics 101 or 103.

Social Science 201 may be elected as an Economics course.

ENGINEERING GRAPHICS 343

102. Elements of Descriptive Geometry 3 credits

Orthographic projection and its application to analysis and solution of three-dimensional problems involving points, lines, planes, and solids; axonometric projections for pictorial representation with engineering applications. Prerequisite: Intermediate math. preparation or consent of instructor.

113. General Engineering Graphics 3 credits

Advanced principles of projection and perspective, sectional views, dimensioning, freehand sketching, isometric and oblique pictorials, graphs and nomographs, maps, structures, machines, assembly drawings, electric circuits, and individualized problems designed to serve the requirements of the several engineering curricula. Prerequisite: Engineering Graphics 102 or consent of instructor.



COURSE OFFERINGS

96 ENGINEERING MECHANICS 346

- 101. Statics** **3 credits**
Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of areas, and friction. This course will serve the requirements of the several engineering curricula. Prerequisite: Mathematics 221.
- 102. Dynamics** **3 credits**
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: Mechanics 101 and Mathematics 222.

ENGLISH 350

- 101. Freshman English** **3 credits**
- 102. Freshman English** **3 credits**
Basic courses which endeavor to develop ability to write clearly and effectively. Exemption from English 101 will be granted on the basis of a student's performance on the placement examination taken as part of the registration procedures. A student who takes English 101 and receives an "A" will be exempted from English 102.
- 200. Introduction to Literature** **3 credits**
A study of the structure and techniques of poetry, drama, and fiction, using representative types from several periods of English and American literature. Prerequisite: completion of Freshman English requirement.
- 201. Intermediate Composition** **3 credits**
The theory and practice of informative and persuasive writing. Prerequisite: completion of Freshman English requirement.
- 203. Introduction to Creative Writing** **3 credits**
Chiefly devoted to writing and studying the short story. Prerequisite: completion of Freshman English requirement.

205. Survey of English Literature 3 credits

An appreciative study of representative work by the most outstanding English writers, set against historical background. Prerequisite: completion of Freshman English requirement.

206. Survey of English Literature 3 credits

A continuation of English 205. Prerequisite: completion of Freshman English requirement.

209. Contemporary Literature 3 credits

An approach to literature through significant and representative modern prose and poetry. Prerequisite: completion of Freshman English requirement.

210. Contemporary Literature 3 credits

A continuation of English 209. Prerequisite: completion of Freshman English requirement.

211. American Literature 3 credits

A study of representative work by the most outstanding American writers, set against the historical background. Prerequisite: completion of Freshman English requirement.

212. American Literature 3 credits

A continuation of English 211. Prerequisite: completion of Freshman English requirement.

FOODS AND NUTRITION 388

232. Nutritional Significance of Food 3 credits

Fundamentals of human nutrition, including functions and requirements of essential nutrients; means of securing an adequate diet. Two hours of lecture, 1 hour discussion via tele-lecture and conference phone, one hour of individual problem study. Prerequisite: one year of high school chemistry or one semester of college chemistry.

COURSE OFFERINGS

98 FRENCH 400

- 103. First Semester French Non-Intensive** 4 credits
For students who have had no previous training in the language. Emphasis on oral practice, grammar, and reading.
- 104. Second Semester French Non-Intensive** 4 credits
Prerequisite: French 103 or one year of high school French.
- 203. Third Semester French** 3 credits
Intensive and extensive reading; grammar review. Prerequisite: 1 year of college French or 2 years of high school French.
- 204. Fourth Semester French** 3 credits
Prerequisite: 3 semesters of college French or 3 years of high school French.
- 215. Conversation and Composition (Elementary Level)** 2 credits
Development of oral facility based on situations met in everyday life. To be taken only concurrently with French 203 or 204, except by special permission. Prerequisite: French 104 or 2 years of high school French.
- 216. Conversation and Composition (Elementary Level)** 2 credits
Continuation of 215. Not open to students who have completed French 204 or passed the intermediate attainment test, except by special permission.
- 221. Introduction to French Literature** 3 credits
Masterpieces in the novel, drama, poetry, and essay (17th and 18th century authors). Lectures, discussion, exercises in translation and interpretation. Prerequisite: French 204 or equivalent.
- 222. Introduction to French Literature** 3 credits
Masterpieces in the novel, drama, poetry, and essay (19th and 20th century authors). Lectures, discussion, exercises in translation and interpretation. Prerequisite: French 204 or equivalent.

227. Conversation and Composition (Intermediate Level)2 credits
 Development of facility in oral and written French. Prerequisites: French 204, at least one semester of French 215-216 or consent of instructor.

228. Conversation and Composition (Intermediate Level)2 credits
 Continuation of French 227. Prerequisite: French 227 or consent of instructor.

GENETICS 412

160. Heredity (see Botany 160 and Zoology 160)3 credits
 A general course in genetics designed especially for students not specializing in science; principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences; lecture, demonstration and discussion. Prerequisites: An elementary biology course and sophomore standing are recommended.

GEOGRAPHY 416

Geography 120, 123, and 124 are laboratory courses in natural science. Geography 125 gives natural science credit but not laboratory credit. Geography 110, 115 and 514 carry social studies credit.

Students with any other course in physical geography or in ILS 132 may not take courses 120 or 125 for credit, or either semester of 123-124.

Either Geography 110 or 115 may be elected for credit, but not both.

110. The World: Peoples and Regions3 credits
 Introduction to cultural geography through the study of representative and significant regions and nations. Open to freshmen.

115. Economic Geography3 credits
 Analysis of location of population and the distribution and character of the leading economic activities (agriculture, fishing, forestry, mining, manufacturing, transportation, and trade) in major world regions. Open to freshmen.

COURSE OFFERINGS

- 100 **120. Survey of Physical Geography** **3 credits**
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. Two hours of laboratory per week. Open to freshmen.
- 123. Physical Geography** **5 credits**
The form of the earth; earth-sun relationships; elements of climate; characteristics, distribution, and significance of climatic types; the seas; natural vegetation; soils. Laboratory and field trips. Open to freshmen.
- 124. Physical Geography** **5 credits**
Introduction to maps; characteristics, distribution, and significance of landform types; the continental margins and the sea floors; water resources of the land; mineral resources. Laboratory and field trips. Open to freshmen.
- 125. Survey of Physical Geography** **3 credits**
Content similar to that of Geography 120 listed above except that 125 has no laboratory work. Open to freshmen.
- 514. Wisconsin** **3 credits**
The physical features, resources, population, land utilization and economic development of the state. Prerequisite: sophomore standing.

GEOLOGY 420

Geology 100, 101, 102 and 145 are laboratory courses in natural science. Geology 443 gives natural science credit but not laboratory credit.

- 100. Survey of Geology** **3 credits**
A brief study of minerals, rocks, and the processes which create and modify the surface features of the earth; field trips and laboratory. Not open to those who have had Geology 101, 102, or 105. Open to freshmen.

101. General Geology **5 credits** 101
 Geologic processes in operation on and beneath the surface of the earth; lecture, laboratory, and field trips, Students who have had Geology 100 may receive only two credits. Open to freshmen.

102. Geologic Evolution of the Earth **5 credits**
 Physical history of the earth in relationship to the orderly development of life throughout geologic time; lecture, laboratory, and field trips. Prerequisite: Geology 100 or 101.

145. Introduction to Paleontology **3 credits**
 A general study of fossil invertebrates and vertebrates and the principles of paleontology; geologic time, principles of classification, and evolution of life of the past are emphasized. Open to freshmen.

443. Glacial and Pleistocene Geology **3 credits**
 Principles, characteristics, and work of glaciers; events of the Pleistocene; applications; field trips. Prerequisites: Geology 100, 101-102, or 105; or Geography 123-124.

GERMAN 424

103. First Semester German **4 credits**
 For students with no previous knowledge of German. Emphasis on reading, oral practice, and grammar.

104. Second Semester German **4 credits**
 Continuation of German 103. Prerequisite: German 103 or equivalent.

203. Third Semester German **3 credits**
 Intensive reading, grammar review, and continued oral practice. Prerequisite: German 104 or equivalent.

204. Fourth Semester German **3 credits**
 Continuation of German 203. Prerequisite: German 203 or equivalent.

COURSE OFFERINGS

- 102 **215. Elementary Conversation** **2 credits**
May be taken concurrently with German 203. Prerequisite: German 104 or equivalent.
- 216. Intermediate Conversation** **2 credits**
May be taken concurrently with German 204. Prerequisite: German 215 or consent of instructor.
- 221. Introduction to German Literature** **3 credits**
Selected readings from German literature of the last two centuries; discussions; transition from language study to study of literature. Prerequisite: German 204 or equivalent.
- 222. Introduction to German Literature** **3 credits**
Continuation of German 221. Prerequisite: German 221 or equivalent.
- HISTORY* 448**
- 119. The Making of Modern Europe, 1500-1815** **3 credits**
An introduction to the principal developments in the history of Europe from the Renaissance to the fall of Napoleon.
- 120. Europe and the Modern World, 1815 to the Present** **3 credits**
A general survey of the political, economic, social, and cultural history of modern Western civilization.
- 201. American History 1607-1865—the Origin and Growth of the United States** **3 credits**
Survey of American political, economic, and social development from the founding of the colonies to the Civil War. Prerequisite: sophomore standing.
- 202. American History, 1865 to the Present** **3 credits**
Survey of American political, economic and social development from the Civil War to the present. Prerequisite: sophomore standing.

255. Problems in American History **3 credits**
 Discussions, reports on reading, research papers; meet in weekly two-hour sections; enrollment limited. Prerequisite: sophomore standing with overall grade point average of 3.0, and/or consent of instructor.

355. Problems in European History **3 credits**
 Discussions, reports on readings, research papers; meet in weekly two-hour sections; enrollment limited. Prerequisite: sophomore standing with overall grade-point average of 3.0, and/or consent of instructor.

*Other freshman and sophomore courses in history may be offered at individual Campuses dependent upon faculty field of interest and schedules. Descriptions of such courses may be found in the L&S catalog of the Madison campus.

HORTICULTURE 476

120. Survey of Horticulture **3 credits**
 Survey course for the beginning students; scientific basis for horticultural practices; scope of the field of horticulture; introduction to propagation, culture, management, improvement, storage, and marketing of flowers, fruits, ornamentals, and vegetables.

ITALIAN 508

103. First Semester Italian Non-Intensive **4 credits**
 Emphasis on oral practice, grammar, and reading. For students who have had no previous training in the language.

104. Second Semester Italian Non-Intensive **4 credits**
 Prerequisite: Italian 103 or one year of high school Italian.

203. Third Semester Italian **3 credits**
 Intensive and extensive reading; grammar review. Prerequisite: 1 year of college Italian or 2 years of high school Italian.

204. Fourth Semester Italian **3 credits**
 Prerequisite: 3 semesters of college Italian or 3 years of high school Italian.

COURSE OFFERINGS

104 JOURNALISM 512

201. Introduction to Mass Communications 2 credits

How the mass media are organized and how they function in modern society; their technological basis, economic and political foundations, and social implications. Required for journalism majors.

203. News Writing 2 credits

Practice in writing various types of news stories under close supervision of instructor; basic training for all informational writing. Required for journalism majors. Center System students may take this course through independent study (correspondence) if not currently available at their Campus. Prerequisites: Journalism 201 or concurrent registration; and completion of English 102, or completion of English 101 with grade of *A* or *B*.

204. Reporting 3 credits

Emphasis on the gathering of news and interviewing. Required for journalism majors, except in the journalism-advertising sequence. Prerequisite: Journ. 203.

MATHEMATICS 600

All courses offered by the Department of Mathematics require mathematical preparation consisting of a minimum of 1 unit of algebra and 1 unit of geometry.

101. Introductory College Algebra 2 credits

Development of the number system and the fundamental operations of algebra; linear and quadratic equations; exponents and logarithms; variations; progressions; the binomial theorem.

Primarily for students who have had "elementary preparation" (normally two years of high school mathematics including elementary algebra and geometry). Course will carry 2 credits for students who have had less than 3 years of mathematical preparation in high school (1-1½ years of algebra and 1 year geometry). Course carries no credit for students who have had 3 years or more mathematical preparation or for students in engineering.

107. Introductory Mathematics of Finance and Probability 4 credits

Mathematical characteristics of currently used financial growth laws, annuities, amortization, sinking funds, and bonds, the algebra of sets, elementary logic and probability, Bayes theorem, independence of events.

Does not count as part of the mathematics requirement for the B.A. or B.S. degree but may be taken as an elective course for credit by students who are candidates for either of these degrees. Prerequisite: completion of Mathematics 112 or equivalent; or advance mathematics preparation and a satisfactory score on the placement examination.

112. College Algebra 3 credits

Number systems and equations; inequalities; functions and graphs; complex numbers; theory of equations; mathematical induction; the binomial theorem.

Primarily for both engineering and non-engineering students who have had intermediate mathematical preparation (1½-2 years algebra and 1 year geometry). Not open for credit to students who have the prerequisites for Mathematics 221 or for students in engineering. Prerequisite: 2 units of high school algebra and 1 unit of high school geometry and a satisfactory score on the placement examination; or Mathematics 101.

113. Plane Trigonometry 2 credits

Trigonometric functions, identities, equations; solution of triangles.

Primarily for both engineering and non-engineering students who have had 2 years of algebra and 1 year of geometry in high school. Not open for credit to students in engineering. Prerequisite: 2 units of high school algebra and 1 unit of high school geometry and a satisfactory score on the placement examination; or Mathematics 112; or concurrent registration in Mathematics 112.

115. Mathematics for Elementary Teachers 4 credits

Basic concepts of set theory and logic; structure of mathematical systems; development of number systems; systems of numeration; historic background. Prerequisites: 1 unit each of high school algebra and geometry; sophomore standing and registration in the Program for the Preparation of Elementary School Teachers.

COURSE OFFERINGS

- 106 **221. Calculus and Analytic Geometry** **5 credits**
An introduction to differential and integral calculus and plane analytic geometry. Selected topics from algebra and trigonometry will be reviewed as needed. Prerequisites: Mathematics 112 and 113, or 4 units of high school mathematics and a satisfactory score on the placement examination.
- 222. Calculus and Analytic Geometry** **5 credits**
Continuation of Mathematics 221. Further topics in analytic geometry and linear algebra; transcendental functions; techniques of integration. For both engineering and non-engineering students. Prerequisite: Mathematics 221.
- 223. Calculus and Analytic Geometry** **5 credits**
Continuation of Mathematics 222. Solid analytic geometry; partial derivatives; multiple integrals; improper integrals; infinite series; linear systems and matrices. For both engineering and non-engineering students. Prerequisite: Mathematics 222.
- 240. Introductory Finite Mathematics** **4 credits**
Elements of mathematical logic; structures in sets, partitions, and counting; probability theory; stochastic processes. Prerequisite: 2 units of high school algebra and 1 unit of high school geometry, or Mathematics 112.
- 320. Linear Mathematics** **3 credits**
Introduction to linear algebra, including matrices, linear transformations, and eigenvalues. Linear systems of differential equations. Numerical aspects of linear problems. Prerequisite: Math. 223.

MEAT AND ANIMAL SCIENCE 604

- 101. Livestock Production (same as Dairy Sci. 101)** **4 credits**
General principles of livestock physiology, feeding, genetics and breeding, marketing and management; lectures, demonstrations and discussion; short field trips as part of lab.

MUSIC 660

107

Some of the music courses listed below are open to all students; others are offered primarily for students who wish to work for a degree in elementary education; still others are open only to students who plan to major or minor in music.

Students wishing to major or minor in music must confer with the chairman of the music department at their Campus. In addition to meeting the general University requirements, each music major or music minor student should be able to demonstrate his qualification for the specific music curriculum of his choice.

The following courses may be taken only by students with a major or minor in music: 121-122, 211-212, 221-222, 241, 243, 244, 245, 246.

The following courses may be taken by all students: 40, 55, 62, 201, 202, 265, 267, 268, 269. Students may count only six credits of work taken in Music 40, 55, and 62 toward a degree.

The following courses are designed to fill requirements for the elementary classroom teacher: 101, 201. The student is advised to take Music 201 before Music 101.



COURSE OFFERINGS

- 108 40. **Band** **0-1 credit**
Open to all students by tryout. Band training, study and performance of standard band literature.
55. **Chorus** **0-1 credit**
Open to all students by tryout. Choral vocal training, study and performance of concert literature.
62. **Orchestra** **0-1 credit**
Open to all students by tryout. Playing of music from symphonic repertoire.
101. **Fundamentals of Music** **2 credits**
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, so that he will be able to teach and supervise his class music program. Not accepted as part of a music major or minor or towards a degree in L&S at Madison or Milwaukee. Class meets for 3 hours.
121. **First Year Theory** **4 credits**
Studies in 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 only to music majors and minors. It is recommended that students have a background in piano before taking this course. Class meets for 5 hours.
122. **First Year Theory** **4 credits**
A continuation of Music 121.
201. **Introduction to Music Literature** **2 credits**
A guide to musical enjoyment and understanding; includes listening experiences in the various styles and forms of music, through assigned readings; the use of recorded music; sound films; and attendance at concerts. Not accepted as part of a music major or minor. Class meets for 3 hours.

- 202. Introduction to Music Literature** **2 credits** 109
 A continuation of Music 201.
- 211. History of Western Music** **3 credits**
 A survey of the historical development of musical style and theoretical concepts from ancient Greece to the present. Prerequisite: freshman theory or its equivalent or consent of instructor. Class meets for 4 hours.
- 212. History of Western Music** **3 credits**
 A continuation of Music 211. Class meets for 4 hours.
- 221. Second Year Theory** **4 credits**
 Aural and written harmony; keyboard harmony and figured bass; harmonic counterpoint; sight-singing and sight-playing; ear training analysis. Prerequisite: first year theory. Class meets for 5 hours.
- 222. Second Year Theory** **4 credits**
 A continuation of Music 221.
- 241. Vocal Technics** **2 credits**
 Theory and practice in fundamentals of singing. Prerequisite: consent of instructor. Class meets for 3 hours.
- 243. Instrumental Technics (Strings)** **2 credits**
 Theory and practice of playing the violin, viola, violoncello, contrabass. Prerequisite: Music 122 or equivalent. Class meets for 3 hours.
- 244. Instrumental Technics (Strings)** **2 credits**
 A continuation of Music 243.
- 245. Instrumental Technics (Woodwinds)** **2 credits**
 Theory and practice of playing the flute, oboe, clarinet, saxophone, bassoon. Prerequisite: Music 122 or equivalent. Class meets for 3 hours.

COURSE OFFERINGS

- 110 246. **Instrumental Technics (Brass and Percussion)** **2 credits**
Theory and practice of playing the French horn, cornet and trumpet, trombone, baritone, tuba, and percussion instruments. Prerequisite: Music 122 or equivalent. Class meets for 3 hours.
263. **Ensemble-Vocal** **1-2 credits**
Assignments in performing ensemble literature. Prerequisite: consent of instructor. Class meets for 2 hours per credit.
265. **Ensemble-Woodwind** **1-2 credits**
Assignments in performing ensemble literature. Prerequisite: consent of instructor. Class meets for 2 hours per credit.
267. **Ensemble-Brass** **1-2 credits**
Assignments in performing ensemble literature. Prerequisite: consent of instructor. Class meets for 2 hours per credit.
268. **Ensemble-Percussion** **1-2 credits**
Assignments in performing ensemble literature. Prerequisite: consent of instructor. Class meets for 2 hours per credit.
269. **Ensemble-Strings** **1-2 credits**
Assignments in performing ensemble literature. Prerequisite: consent of instructor. Class meets for 2 hours per credit.

MUSIC APPLIED 664

Applied music courses are available to freshmen majoring in music, occupational therapy, and recreation. Students in other departments or majors may take courses in applied music with the consent of the instructor. The prerequisites for courses in applied music beyond the fundamentals level are successful

completion of the preceding course in a sequence and consent of instructor. Normally, a student taking an applied music course should be registered concurrently for Music 121-122 or 221-222.

All students registered for applied music courses will be assessed the full semester fee regardless of the number of credits carried.

It should be noted that applied music on *all* instruments and voice is not available from Center System staff. In such cases, an accredited and approved teacher in the area will give this instruction.

The student must consult with the music adviser on his campus before registering for these applied courses.

**MUSIC—APPLIED CHART (CURRICULAR AREA NUMBER 664)
PIANO, ORGAN, AND VOICE**

Course	Piano		Organ		Voice	
	Cr.	Number	Cr.	Number	Cr.	Number
Fundamentals	2	001			2	005
Fundamentals	2	002			2	006
Elementary	2	041				
Elementary	2	042				
First Year	2	101	2	103*	2	105
First Year	2	102	2	104	2	106
Second Year	2	201	2	203	2	205
Second Year	2	202	2	204	2	206

* Admission contingent upon eligibility for Piano 101.

COURSE OFFERINGS

112

MUSIC APPLIED CHART WIND AND STRING INSTRUMENTS

Department Number 664

Course	Credits	Elementary	Elementary	Intermediate	Intermediate	First Year	First Year	Second Year	Second Year
Flute	2	007	008	047	048	107	108	207	208
Oboe	2	009	010	049	050	109	110	209	210
Clarinet	2	011	012	051	052	111	112	211	212
Saxophone	2	013	014	053	054	113	114	213	214
Bassoon	2	015	016	055	056	115	116	215	216
Horn	2	017	018	057	058	117	118	217	218
Trumpet Coronet	2	019	020	059	060	119	120	219	220
Trombone	2	021	022	061	062	121	122	221	222
Baritone	2	023	024	063	064	123	124	223	224
Tuba	2	024	026	065	066	125	126	225	226
Percussion	2	027	028	067	068	127	128	227	228
Violin	2	031	032	071	072	131	132	231	232
Viola	2	033	034	073	074	133	134	233	234
Cello	2	035	036	075	076	135	136	235	236
String Bass	2	037	038	077	078	137	138	237	238
Harp	2	039	040	079	080	139	140	239	240
Guitar	2	045	046						

PHILOSOPHY 736

- 101. Introduction to Philosophy3 credits**
Introduction to philosophic thinking through examination of the problems of freedom, knowledge, and what is worthwhile. Open to freshmen and sophomores who have had no previous philosophy course other than Philosophy 211.
- 102. Introduction to Social Philosophy3 credits**
Studies of opposing philosophical views about man and his political and social life. Prerequisite: Philosophy 101 or sophomore standing.
- 103. Belief, Knowledge, and Truth3 credits**
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: Philosophy 101 or sophomore standing.
- 211. Elementary Logic3 credits**
Principles, standards, and methods for distinguishing good reasoning from bad, as applied to deductive and inductive inferences. Nature and detection of fallacies, and linguistic pitfalls affecting reasoning. Open to freshmen and sophomores.
- 226. Philosophical Ideas in Literature3 credits**
A study of philosophical and moral ideas as embodied in selected works of literary art: aesthetic analysis of their structure and content. Prerequisite: Sophomore standing and 3 credits in philosophy.
- 241. Introductory Ethics3 credits**
Nature of moral problems and of ethical theory, varieties of moral skepticism, practical ethics and the evaluation of social institutions. Prerequisite: Philosophy 101 or sophomore standing.
- 253. Philosophy of the Arts3 credits**
Production, appreciation, and criticism of works of art; sources and use of standards. Prerequisite: Philosophy 101 or sophomore standing.

COURSE OFFERINGS

- 114 **254. Social Problems of Contemporary Art** **3 credits**
Critical consideration of problems raised by the activities and productions of contemporary artists, such as freedom, censorship, uses of art, function of artists in society, social benefits of art. Prerequisite: Philosophy 101 or sophomore standing.
- 258. Man, Religion and Society** **3 credits**
Study and critique of the views of theistic and secular writers concerning religion and its relationship to individual and social problems. Prerequisite: Philosophy 101 or sophomore standing.
- 520. Philosophy of the Natural Sciences** **3 credits**
Nature and function of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, teleology. Prerequisites: sophomore standing and 3 credits in philosophy.

PHYSICAL EDUCATION—GENERAL 740

Students may elect to take activity courses as offered at the various campuses. The offerings may include such activities as water safety, weight training, basketball, handball, etc. These courses may be elected for 1 credit. Whether this additional course work will count as degree credit depends on the regulations of the school or college from which the student seeks his degree. Courses are available for both men and women.

If you are interested in an activity course, please consult with the physical education instructor before registering, to determine your eligibility for the activity.

PROFESSIONAL PHYSICAL EDUCATION—MEN* 742

- 101. Orientation and Introduction to Physical Education** **2 credits**
- 102. Physical Education Activities** **2 credits**
Tumbling and individual sports.

103. **Techniques and Materials for Individual Activities**2 credits 115
Tennis, badminton, paddle ball, handball, squash and gymnastics.
104. **Techniques and Materials for Individual Activities**2 credits
Winter sports, fencing and golf.
105. **Techniques and Materials for Team Activities**2 credits
Wrestling and basic swimming.
106. **Advanced Techniques and Materials for Team Activities**2 credits
Swimming, waterfront safety course.
109. **Physical Education Fundamentals for Teaching**2 credits
Laboratory instruction and teaching.
110. **Basketball Fundamentals, Theory and Team Play**2 credits
201. **Nature, Function and Organization of Play**2 credits
Organization and administration of playgrounds. *Open to men and women.*
211. **First Aid**1-2 credits
Students who complete the course for 1 credit will receive the standard Red Cross certificate. Students who complete the 2 credits with a grade of *B* or better will receive the Red Cross Instructor's First Aid Certificate and Civil Defense Certificate. Letters and Science students may take the course for 1 credit. *Open to men and women.*

*Credit in these courses will not count toward a degree in Letters and Science or Business.

PHYSICS 754

105. **General Physics**4 credits
Studies in mechanics; heat; wave; motion; and sound. Three hours of lecture, three hours of discussion-laboratory. Recommended for students majoring in Business, Elementary Education, Medical Technology, Pharmacy, Physical Education, Pre-dentistry, and Pre-medical studies. Prerequisites: one unit high school algebra and one unit high school plane geometry.

COURSE OFFERINGS

- 116 **106. General Physics** **4 credits**
A continuation of Physics 105. Electricity and magnetism, light, and modern physics. Three hours of lecture, three hours of discussion-laboratory. Prerequisite: Physics 105.
- 201. General Physics for Engineers** **5 credits**
Studies in mechanics; wave motion; sound; and heat. Required of sophomores in civil, chemical, mechanical, and mining engineering. Prerequisite: Mathematics 222 or concurrent registration.
- 202. General Physics for Engineers** **5 credits**
Studies in magnetism; electricity; and light. Continuation of Physics 201. Prerequisite: Physics 201.
- 205. Modern Physics for Engineers** **3 credits**
Introduction to atomic, nuclear, and solid state physics. Prerequisite: Physics 202 and consent of instructor.

PHYSIOLOGY 762

- 104. Anatomy and physiology** **4 credits**
Lectures, recitation, and laboratory dealing with the structure of the human body and the physiology of the organ systems. Prerequisites: general chemistry or concurrent registration in general chemistry with consent of instructor; biology or zoology.

POLITICAL SCIENCE 778

- 101. Introduction to Politics** **4 credits**
Approaches to political inquiry; basic problems common to all political systems; issues and practices of American politics. Open to freshmen and sophomores.

- 105. State Government and Public Policy** **3 credits**
 Studies in the federal system, constitutional basis, and structure of state and local governments; domestic functions of all levels of government. Open only to freshmen and sophomores.
- 106. Comparative Government and Politics** **3 credits**
 A comparative analysis of the political systems of major European and other selected nations of the world, stressing comparison of institutions, processes, and methods of comparative analysis. Open to freshmen.
- 175. International Relations** **3 credits**
 A survey of conditions determining power and policies of individual nation-states; conflicting national policies; and international institutions. Open to freshmen.
- 201. Introduction to Political Theory** **3 credits**
 A critical survey of offerings, historical and contemporary, to develop a systematic theory of politics. Prerequisites: Previous course in Political Science or consent of instructor.
- 213. Urban Politics** **3 credits**
 Organization and politics of city government; changing political structures and leadership patterns in urban areas; consideration of urban policy problems. Prerequisites: Previous course in Political Science or consent of instructor.
- 222. Politics, Parties, and Pressure Groups** **3 credits**
 An analysis of the nature and functions of political parties; organization and leadership structure of political parties and pressure groups; nominations and elections; voting behavior; and survey research techniques. Prerequisites: Previous course in Political Science or consent of instructor.
- 223. Proseminar in Political Science** **3 credits**
 The nature and subject of this course to be announced by instructor. Prerequisites: Previous course in Political Science or consent of instructor.

COURSE OFFERINGS

- 118 243. **Public Administration** 3 credits
An introductory study of the role and principles of administration in modern government; an analysis of the organized processes of government for the effective utilization of human and material resources to attain the goals of society. Prerequisites: Previous course in Political Science or consent of instructor.

Social Science 201 may be elected as a Political Science course.

Note: Political Science courses are available for honors credit on an individual basis.

PSYCHOLOGY 820

201. **Introduction to Psychology** 4 credits
202. **Introduction to Psychology** 3 credits
Development of human behavior in infant and child; motivation, frustration, emotion, and biological functions; intelligent behavior; learning, retention, and forgetting; social behavior, language, and thinking; personality; efficiency. Prerequisite: sophomore standing or advanced freshman standing and consent of instructor.
205. **Psychology of Human Adjustment** 3 credits
Personality adjustment and maladjustment in normal persons; need frustration, and conflict; adjustive techniques; analysis and rehabilitation. Prerequisite: Psychology 201 or 202.
This is designed as a terminal course for individuals in other areas of concentration, and *does not count toward the major in psychology.*
507. **Psychology of Personality** 3 credits
Modern approaches to the organization and development of personality. Prerequisite: Psychology 201 or 202.
530. **Introductory Social Psychology** 3 credits
Introduction to the general area of social psychology covering such topics as motivation, attitude, value, communication, leadership, etc. Prerequisites: Psychology 201 or 202, or Sociology 101 or Anthropology 100; also sophomore standing or consent of instructor.

560. Child Psychology 3 credits 119
Learning principles; motor, language emotional, and social development of the child. Emphasis on experimentation and systematic investigation. Prerequisite: Psychology 201 or 202.

RELATED ARTS (Home Economics) 852

120. Fundamentals of Design 3 credits
Basic course in the elements and principles of design as applied to the home and individual.

SOCIAL SCIENCE 890

201. Proseminar on Developing Nations: Asia 3 credits
A comparative analysis of economic, political and social problems confronting Asian states, stressing the factors leading to change and affecting the development of modern institutions and processes. Prerequisites: Any course in the social sciences (history, sociology, etc.) and consent of instructor. Course may be elected for credit in economics or political science.

SOCIOLOGY* 900

101. Man in Society: An Introduction to Sociology 3 credits
A course in interrelations of personality, society and culture; social processes, structures, institutions and functions as they affect the building up and tearing down of society. Open to freshmen.

102. Social Disorganization 3 credits
Conditions and processes in personal and social maladjustment; nature of social problems, their relation to social change and basic ideological, technological, and institutional structures and processes. Open to freshmen.

224. Problems of American Minority Groups 3 credits
The nature, problems and adjustments of American racial, religious, ethnic and nationality groups; proposals for reductions of intergroup tensions. Prerequisite: sophomore standing, and an introductory course in sociology or consent of instructor.

COURSE OFFERINGS

- 120 **260. Marriage and Family** **3 credits**
Nature of the family. Processes of courtship and marriage interaction. Correlation of physiological, psychological, economic and sociological contributions to marriage and family life. Prerequisite: sophomore standing or consent of instructor.
- 278. Contemporary American Society** **3 credits**
Patterns of contemporary social life in the United States and Canada; cultural orientations, social structures and dynamics of social change. Prerequisite: sophomore standing.
- 530. Introductory Social Psychology** **3 credits**
(Same as Psychology 530.) Introduction to the general area of social psychology, covering such topics as motivation, attitude, value, communications, leadership, etc. Prerequisite: sophomore standing and Sociology 101, or Anthropology 100, or Psychology 201 or 202.
*Sociology staff members at the various Campuses will be offering additional courses in their areas of special competence. The Madison campus requirement of junior standing which may be prerequisite to such courses will be amended to a prerequisite of sophomore standing for Center System students, but a Center System student can take only one such course (number 300 to 699) during his sophomore year. Sociology 530 is excluded for this purpose.

SOILS 908

- 101. Soils and Soil Fertility** **4 credits**
Introductory general survey of the field. Prerequisite: Chemistry 102.

SPANISH 912

- 103. First Semester Spanish** **4 credits**
Spanish grammar, elementary reading, oral practice, and cultural background. For students who have had no Spanish.

- 104. **Second Semester Spanish** **4 credits**
 A continuation of above course. Prerequisite: Spanish 103 or 1 year of high school Spanish.
- 203. **Third Semester Spanish** **4 credits**
 Intensive grammar review, oral and composition practice, class reading. Prerequisite: Spanish 104 or 2 years of high school Spanish.
- 204. **Fourth Semester Spanish** **2-4 credits**
 Intensive class reading; study of vocabulary, idioms, and constructions; oral and composition practice. Prerequisite: Spanish 203 or 3 years of high school Spanish.
- 221. **Elementary Survey of Spanish Literature** **3 credits**
 Introduction to the study of Spanish literature; readings, discussions, literary history. Twelfth to seventeenth centuries. Prerequisite: Spanish 204 or equivalent.
- 222. **Elementary Survey of Spanish Literature** **3 credits**
 A continuation of Spanish 221. Eighteenth to twentieth centuries.
- 225. **Third-year Conversation and Composition** **3 credits**
 Emphasis on oral and composition practice. Prerequisite: Spanish 204 or equivalent.
- 226. **Third-year Conversation and Composition** **3 credits**
 A continuation of above course. Prerequisite: Spanish 225 or equivalent.

SPEECH 920

- 100. **Theater Laboratory** **0-1 credits**
 Practical application of the principles of acting, directing, stagecraft, and/or management through actual participation in dramatic productions. Specific requirements will be made by the instructor depending upon area or areas assigned. Open to all students every semester by consent of instructor. (Credit will not transfer to the UW-Madison, but will count toward Theater Division practicum requirements.)

COURSE OFFERINGS

- 122 **101. Fundamentals of Speech** **3 credits**
Instruction in the principles of preparing and presenting effective public messages. Application of these principles in the analysis of contemporary speeches and in the presentation and critique of student speeches. Open to freshmen. Not open to those who have had Speech 105 or 181.
- 130. Introduction to Dramatic Arts** **3 credits**
Study of the nature of drama, important plays, and presentation on stage, in motion pictures, by television. Open to freshmen.
- 160. Speech and Human Behavior** **3 credits**
Consideration of the nature of public discourse through the study of leading theorists, examination of fundamental problems and concepts, and analysis of examples of public discourse. Open to freshmen.
- 230. Fundamentals of Oral Interpretation** **2 credits**
Emphasis on understanding literature through study of meaning, imagery, mood, and theme. Analysis and development of techniques in presentation. Prerequisites: Sophomore standing; for speech majors 2 cr. in a beginning speech course. Open also to second semester freshmen who have successfully completed Speech 101, 105, or 181, and with consent of instructor.
- 231. Elements of Dramatic Production** **3 credits**
Play analysis, fundamentals of acting, directing, staging, lighting, costuming and make-up; theatre organization and business management. Not open to theatre concentration majors. Prerequisite: sophomore standing. Open also to second semester freshmen who have successfully completed Speech 101, 105, 130, or 181, and with consent of instructor.
- 232. Fundamentals of Acting** **3 credits**
Action, voice, and analysis of character for portrayal of realistic roles in proscenium and arena. Prerequisites: Sophomore standing. Open also to second semester freshmen who have successfully completed Speech 101, 105, 130, or 181, and with consent of instructor.

- 241. European Drama and Theatre: Ancient Greece to the 17th Century** **3 credits**
 Drama and theatre in Europe from 500 B.C. to 1642. Prerequisites: Sophomore standing. Open also to second semester freshmen who have successfully completed Speech 101, 105, 130, 160, or 181, and with consent of instructor.
- 242. European Drama and Theatre: From the 17th Century**..... **3 credits**
 A continuation of Speech 241 but may be taken as an independent unit. Drama and theatre in France, England, Germany, Italy, and Scandinavia from the 17th Century to the present. Prerequisites: Sophomore standing. Open also to second semester freshmen who have successfully completed Speech 101, 105, 130, 160, or 181, and with consent of instructor.
- 250. Survey of Radio, Television, Film as Mass Media** **3 credits**
 A survey and analysis of the history, regulation, scope, social implications and problems of American radio, television, and film as mass media. Prerequisites: Sophomore standing. Open also to second semester freshmen who have successfully completed Speech 101, 105, 130, 160, or 181, and with consent of instructor.
- 266. Theory and Practice of Group Discussion** **3 credits**
 Study of the structure and dynamics of small group decision-making. Includes critical and creative problems in group interaction processes. Prerequisites: Sophomore standing. Open also to second semester freshmen who have successfully completed Speech 101, 105, 160, or 181, and with consent of instructor.
- 343. Continental Drama—Late Nineteenth Century**..... **3 credits**
 A study of the development of modern realistic drama, its nature, trends and impact, through the plays of Buchner, Ibsen, Zola, Strindberg, Chekhov, Hauptmann, and others. Prerequisite: Sophomore standing.
- 344. Continental Drama—The Twentieth Century**..... **3 credits**
 The development of realism and expressionism in the plays and dramatic theory of Wedekind, Pirandello, Anouilh, Nietzsche, Ionesco, and Brecht. Prerequisite: Sophomore standing.

COURSE OFFERINGS

- 124 **464. Theory and Practice of Persuasion** **3 credits**
Consideration of principles, processes and methods of persuasion with practice in the preparation and delivery of various types of persuasive speeches; includes critical and creative problems in both oral and written forms. Prerequisites: Sophomore standing. Open also to second semester freshmen who have successfully completed Speech 101, 105, 160, or 181 and with consent of instructor.
Note: Courses in which the Speech Proficiency Requirements for the University Teaching Certificate May Be Met Under Option B Are: 101, 230, 232, 266, 464. Also 130 at certain Campuses.

ZOOLOGY 970

- 101. Animal Biology** **5 credits**
General biological principles—structure and function of cells, histology, embryology, heredity and evolution; survey of the animal kingdom; and structure and function of the vertebrate body.
- 160. Heredity (See Botany 160 and Genetics 160)** **3 credits**
A general course in genetics designed especially for students not specializing in science; principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences; lecture, demonstration and discussion. Prerequisites: An elementary biology course and sophomore standing are recommended.
- 300. General Invertebrate Zoology** **3 credits**
Structure, function, classification and life histories of the major groups of invertebrates. Prerequisites: introductory course in zoology and sophomore standing.
- 430. Comparative Anatomy of Vertebrates** **5 credits**
Lectures comparing structure of organ systems in the different vertebrate groups. Laboratory dissection of shark, mud-puppy, turtle, bird, and cat. Prerequisites: introductory course in zoology and sophomore standing.
- 515. Conservation of Aquatic Resources - Limnology** **2 credits**
General limnology; study of lake and stream communities and their conservation. Prerequisite: introductory course in zoology or botany.



ADMINISTRATION

126 ADMINISTRATIVE OFFICERS

1968-69 Academic Year

FRED HARVEY HARRINGTONPresident of the University
R. L. CLODIUSVice President of the University
L. H. ADOLFSONChancellor, University Center System
M. DURWARD LONG.....Vice Chancellor
J. R. BATTAssistant to Chancellor
H. J. DUWEAssistant to Chancellor
R. L. BORCHERDINGDirector of Business Affairs
MRS. GLADYS S. MEIERRegistrar and Director of Admissions
R. E. SCHWENNDirector, Center System Libraries
A. E. MANCLArchitect and Planner
MRS. TRUDI STONESecretary of the Faculty
D. R. STUCKIDirector of Institutional Studies
MISS MOLLIE E. BUCKLEYDirector of Public Information
A. F. KUCERACoordinator of Student Financial Aids
N. S. KADERLANCoordinator of Lecture and Fine Arts
MRS. JEAN SUE SPRADLINGCoordinator of Student Publications

UNIVERSITY CENTER SYSTEM
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1968-69 Academic Year

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Mrs. Georgiane Bentzler, Librarian

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ADMINISTRATION

128 **SHEBOYGAN COUNTY CAMPUS, P. O. Box 719, Sheboygan414-458-5566**

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R. W. Olson, Assistant Director of Student Affairs

Mrs. Sue Westfall, Librarian

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B. P. Warner, Adviser to Students and Student Financial Aid

Miss Arlene M. Wroblewski, Coordinator of High School and College Relations

W. R. Niebuhr, Adviser to Student Activities

Mrs. Laraine O'Brien, Coordinator of Public Information

M. B. Pate, Librarian

C. R. Fowler, Publications



UNIVERSITY CENTER SYSTEM
DEPARTMENTAL ADMINISTRATION

1968-69 Academic Year

Instruction in the University Center System is supervised by the following Departmental Chairmen who are resident on the Madison or Center campuses.

Anthropology and Sociology	Edward Rothstein
Art Education	James A. Schwalbach
Botany and Zoology	William R. Schmitz
Business Administration	Irving K. Christiansen
Chemistry and Physics	Emory D. Fisher
Economics	Leon Applebaum
Engineering	Donald E. Gritzmacher
English	George B. Rodman
French	Joseph Palmeri
Geography and Geology	Robert W. Finley
German	Henry Geitz Jr.
History	Robert C. Nesbit
Journalism	James A. Fosdick
Mathematics	Marion B. Smith
Music	Emmett R. Sarig
Philosophy	Robert R. Ammerman
Physical Education	Carl E. Sanger
Political Science	Josef Burger
Psychology	Charles S. Bridgman
Spanish	Henry Geitz Jr.
Speech	David F. Hundhausen

BULLETINS

130 All campuses of the University publish bulletins as an aid to selecting the course of your interest.

The bulletins listed immediately below are for the Madison campus and schools, and are available from the Director of Student Affairs at your Center System campus, or from the University News and Publications Service, 19 Bascom Hall, Madison 53706.

Preview (information about Madison, Milwaukee, Green Bay, Parkside, and Center System campuses, and University Extension)

College of Letters and Science

College of Agricultural and Life Sciences

School of Business (Includes the course in Construction Administration.)

School of Education (Includes art, art education, occupational therapy, physical education, recreational leadership, elementary and secondary education.)

College of Engineering

Graduate School (Request Social Sciences and Humanities, or Natural Sciences and Engineering.)

Graduate School of Business

School of Home Economics

Integrated Liberal Studies

Law School

Library School

Medical School

Medical Technology

Music at Wisconsin

School of Nursing

Occupational and Physical Therapy

School of Pharmacy

School of Social Work



For the University of Wisconsin - Milwaukee *Catalog*, write: Office of Admissions and Records, 217 Mitchell Hall, Milwaukee 53201. (Includes all schools and colleges at UW-M.)

For information and bulletins about Summer Sessions, write: Summer Sessions, 602 State Street, Madison 53706; or 3270 North Downer Avenue, Milwaukee 53201.

If you wish more information about Independent Study through University Extension, write: Independent Study, 227 Extension Building, 432 North Lake Street, Madison, 53706.

For the University of Wisconsin-Green Bay *Catalog* write: Office of Student Services, Deckner Avenue Building, UWGB, Green Bay, Wisconsin 54302.

For information and bulletins about the University of Wisconsin-Parkside, write: Office of Student Services, University of Wisconsin-Parkside, Wood Road, Kenosha, Wisconsin 53140.



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UNIVERSITY CALENDAR 1969-71

138 SUMMER SESSION

1969

Eight-week session begins	June 23 (M)
Independence Day: legal holiday	July 4 (F)
Eight-week session ends	August 16 (S)

FIRST SEMESTER

1969-70

New student advising and pre-registration	June, July, and Aug.
Registration days	Sept. 10-12 (W-F)
Instruction begins	Sept. 15 (M)
Thanksgiving recess	Nov. 27, 28, 29, 30 (Th-Su)
Christmas recess begins	Dec. 20 (S, noon)
Classes resume	Jan. 5 (M)
Study period (no classes or exams)	Jan. 14-15 (W-Th)
Final examinations	Jan. 16-24 (F-S)

SECOND SEMESTER

1970

Registration days	Jan. 27-30 (Tu-F)
Instruction begins	Feb. 2 (M)
Spring recess	Mar. 27-Apr. 5 (F-S)
Memorial Day: legal holiday	May 30 (S)
Study period (no classes or exams)	May 26-27 (Tu-W)
Final examinations	May 28-Ju 6 (Th-S)

SUMMER SESSION

1970

Eight-week session begins	June 22 (M)
Independence Day: legal holiday	July 4 (S)
Eight-week session ends	Aug. 15 (S)

FIRST SEMESTER**1970-71**

New student advising and pre-registration	June, July and Aug.
Registration days	Sept. 16-18 (W-F)
Instruction begins	Sept. 21 (M)
Thanksgiving recess	Nov. 26-29 (Th-Su)
Christmas recess begins	Dec. 19 (S, noon)
Classes resume	Jan. 4 (M)
Study period (no classes or exams)	Jan. 20, 21 (W-Th)
Final examinations	Jan. 30-Feb. 2 (F-S)

SECOND SEMESTER**1971**

Registration days	Feb. 2-5 (Tu-F)
Instruction begins	Feb. 8 (M)
Spring recess	Apr. 9-18 (F-S)
Memorial Day, holiday	May 30 (Su)
Study period (no classes or exams)	June 2, 3 (W, Th)
Final examinations	June 4-12 (F-S)

SUMMER SESSION**1971**

Eight-week session begins	June 28 (M)
Independence Day: legal holiday	July 4 (Su)
Eight-week session ends	Aug. 21 (S)
