

DESCRIPTIONS of COURSES 1999-2001

This section provides descriptions of all courses given by the University at the undergraduate, graduate-professional, and graduate levels. For information about courses offered through the Institute of Agricultural Technology, contact the Institute of Agricultural Technology in Room 120 Agriculture Hall.

Refer to the statements on *Credits* and *Course Formats and Credits* in the *Academic Programs* section of the catalog.

COURSE NUMBERS

001-099 Non-Credit Courses

Courses with these numbers are offered by the University to permit students to make up deficiencies in previous training or to improve their facility in certain basic skills without earning credit.

For information about remedial-developmental-preparatory courses, consult the *Undergraduate Education* section of the catalog.

100-299 Undergraduate Courses

Courses with these numbers are for undergraduate students. They carry no graduate credit, although graduate students may be admitted to such courses in order to make up prerequisites or to gain a foundation for advanced courses.

For information about remedial-developmental-preparatory courses, consult the *Undergraduate Education* section of the catalog.

300-499 Advanced Undergraduate Courses

Courses with these numbers are for advanced undergraduate students. They constitute the advanced portion of an undergraduate program leading to the bachelor's degree. A graduate student may carry 400 level courses for credit upon approval of the student's major department or school. In exceptional cases, a graduate student may petition the dean of his or her college, in writing, for approval of a 300 level course for graduate credit.

500-699 Graduate-Professional Courses

Courses with these numbers are courses in the graduate-professional programs. A graduate student may carry these courses for credit with approval of the major department or school.

800-899 Graduate Courses

Courses with these numbers are for graduate students. Advanced undergraduates with Honors College status or a grade-point average in their total programs equal to or greater than the minimum requirement for graduation with honors may be admitted to 800-899 level courses. The student must obtain approval of the relevant department. *More than half of the credits of the total required for a master's degree shall be taken at the 800 and 900 level except as specifically exempted by the dean of the college.*

900-999 Advanced Graduate Courses

Courses with these numbers are exclusively for graduate students and primarily for advanced graduate students. A master's degree student may take these courses with the approval of the major department or school, with the exception of courses numbered 999 (doctoral dissertation research). Admission to a doctoral degree program is a prerequisite of all courses numbered 999.

VARIABLE CREDIT COURSES

For each variable credit course, the range of credits for which a student may enroll in a given semester and the maximum number of credits that a student may earn in a course with a reenrollment provision shall be specified.

MULTITITLED COURSES

A multititled course is one that has been approved as such by the Academic Council upon recommendation of the University Committee on Curriculum (UCC). Approval of a course as a multititled course shall include authorization for subtitles for the course to be established. Approved subtitles shall have the same status as separately approved courses that are included in the *Descriptions of Courses* section of the University catalog. For example, an approved subtitle shall be included in the *Schedule of Courses* in place of the general, authorized title for the multititled course and shall appear on students' academic records (including transcripts). Multititled courses are identified as such by the coding '(MTC)' after the course titles in the *Descriptions of Courses*.

Multititled courses may have approved subtitles. A subtitle of a multititled course represents a subject matter area that is related to the course and that has been approved as a subtitle for that course by the UCC.

COURSE LISTINGS

A	p	405. Biomedical Electronics
B	p	<i>Fall. 3(3-0) May reenroll for a maximum of 6 credits. Interdepartmental with Electrical Engineering.</i>
C	p	<i>P: (MTH 132 and PHY 184) RB: (MTH 124) R: Open only to juniors or seniors. C: BME 406 concurrently.</i>
D	p	Electronic components and circuits. Physiological measurements, transduction of physiological events to electrical signals.
E	p	<i>SA: BME 409</i>

To understand the characteristics of a course, consider each of the five categories depicted below.

A	The course number and title including The course number suffix: H — Honors Course 1 — Type I 2 — Type II Remedial-Developmental- 3 — Type III Preparatory Courses 4 — Type IV 5 — Type V
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For additional information about remedial-developmental-preparatory courses, consult the *Academic Programs* section of the catalog.

The designation code for a Tier II writing course in parentheses following the course title.

(W) — Tier II writing course

For additional information, refer to the statement on *Writing Requirement* in the *Academic Programs* section of the catalog.

The diversity designation code for an integrative studies course in parentheses following the title:

(I) — international and multicultural diversity

(N) — national diversity

(D) — national diversity, and international and multicultural diversity

For additional information, refer to *Integrative Studies* in the *Academic Programs* section of the catalog.

The designation code for a multititled course:

(MTC) — multititled course

B Information about the semester of offering, credits and instructional model, reenrollment provision, and interdepartmental status.

The semester(s) the course is authorized to be given is identified. Lack of staff or low student enrollment may preclude offering the course every semester for which it is authorized.

The semester credits are designated to include class hours a week as follows: A(B-C) where:

A = Number of semester credits.

B = Number of class hours per week in lecture/recitation/discussion.

C = Number of class hours per week in laboratory.

If the credit is indicated to be variable, the number of credits is to be determined at the time of enrollment. If the course is a non-credit course, the credit-equivalent is given in brackets.

Reenrollment provision is identified.

Interdepartmental course status is identified.

C Information about prior academic preparation and student access to the course:

P — Prerequisite = a course to be completed either prior to, or concurrently with, another course. A prerequisite is identified by course subject code and number. The course subject codes and corresponding names are listed below. *The prerequisite may be satisfied by the course or courses indicated or equivalent background.*

RB — Recommended Background = prior academic work, experience, or other qualifications that are recommended, but not required, and which will *not* be monitored (either in SIS or by the unit). Recommended work may provide some background that will be helpful, and faculty want to signal that to potential enrollees. Such background is not essential to success in the course, nor can faculty assume that students who enroll will have such knowledge.

C — Corequisite = a course that must be completed concurrently with another course. A corequisite is identified by course subject code and number. The course subject codes and corresponding names are listed below.

R — Restriction = a limitation on student access to the course. For example, a course may be available only to juniors and seniors, or to students in a specified major, department, or college.

A student who is unsure of eligibility for enrolling in a course should contact the department, school, or college that administers the course.

D

A brief description of the course.

E

SA — Semester Alias = a course identified as the equivalent of another course.

Course Designations

Throughout the programs of study given in this section, courses are identified either by course subject codes, course numbers, and course titles (example: CSE 101 Computing Concepts and Competencies) or by course names and course numbers (example: Computer Science and Engineering 101). Additional information about specific courses may be found in the *Descriptions of Courses* section of the catalog.

To assist in locating information about specific courses in the *Descriptions of Courses*, the course subject codes are listed below in alphabetical order. For each subject code, the corresponding name is given.

SUBJECT CODE

NAME

ACC	Accounting
ADV	Advertising
AEC	Agricultural Economics
AEE	Agricultural and Extension Education
AFR	African Languages
AL	Arts and Letters
AMS	American Studies
ANP	Anthropology
ANR	Agriculture and Natural Resources
ANS	Animal Science
ANT	Anatomy
ARB	Arabic
AS	Aerospace Studies
ASC	Audiology and Speech Sciences
ASN	Asian Languages
AST	Astronomy and Astrophysics
ATL	American Thought and Language
ATM	Agricultural Technology and Systems Management
BCH	Biochemistry
BCM	Building Construction Management
BE	Biosystems Engineering
BME	Biomedical Engineering
BOT	Botany and Plant Pathology
BS	Biological Science
CAS	Communication Arts and Sciences
CE	Civil Engineering
CEM	Chemistry
CEP	Counseling, Educational Psychology and Special Education
CHE	Chemical Engineering
CHS	Chinese
CJ	Criminal Justice
CLA	Classical Studies
CMB	Cell and Molecular Biology
COM	Communication
CSE	Computer Science and Engineering
CSS	Crop and Soil Sciences
EAD	Educational Administration
EC	Economics
ECE	Electrical and Computer Engineering
EGR	Engineering
ENE	Environmental Engineering
ENG	English
ENT	Entomology
EPI	Epidemiology
ES	Earth Science
FCE	Family and Child Ecology
FCM	Family and Community Medicine
FE	Food Engineering

SUBJECT CODE	NAME	SUBJECT CODE	NAME
FI	Finance	MTH	Mathematics
FMP	Family Practice	MUS	Music
FOR	Forestry	NEU	Neuroscience
FRN	French	NSC	Natural Science
FSC	Food Science	NUR	Nursing
FSM	Food Systems Economics and Management	OGR	Obstetrics, Gynecology, and Reproductive Biology
FW	Fisheries and Wildlife	OMM	Osteopathic Manipulative Medicine
GBL	General Business and Business Law	OSS	Osteopathic Surgical Specialities
GEN	Genetics	OST	Osteopathic Medicine
GEO	Geography	PED	Pediatrics
GLG	Geological Sciences	PHD	Pediatrics and Human Development
GRK	Greek	PHL	Philosophy
GRM	German	PHM	Pharmacology and Toxicology
HA	History of Art	PHY	Physics
HB	Hospitality Business	PIM	Integrative Management
HEB	Hebrew	PKG	Packaging
HEC	Human Ecology	PLS	Political Science
HED	Human Environment and Design	PMR	Physical Medicine and Rehabilitation
HM	Human Medicine	PRM	Public Resource Management
HNF	Human Nutrition and Foods	PRO	Office of the Provost
HRT	Horticulture	PRR	Park, Recreation and Tourism Resources
HST	History	PRT	Portuguese
IAH	Integrative Studies in Arts and Humanities	PSC	Psychiatry
IM	Internal Medicine	PSL	Physiology
ISB	Integrative Studies in Biological Science	PSY	Psychology
ISP	Integrative Studies in Physical Science	PTH	Pathology
ISS	Integrative Studies in Social, Behavioral and Economic Sciences	RAD	Radiology
ITL	Italian	RD	Resource Development
JPN	Japanese	REL	Religious Studies
JRN	Journalism	ROM	Romance Languages
KIN	Kinesiology	RUS	Russian
LA	Landscape Architecture	SCS	Small Animal Clinical Sciences
LBS	Lyman Briggs School	SOC	Sociology
LCS	Large Animal Clinical Sciences	SPN	Spanish
LIN	Linguistics	SSC	Social Science
LIR	Labor and Industrial Relations	STA	Studio Art
LL	Linguistics and Languages	STT	Statistics and Probability
LTN	Latin	SUR	Surgery
MBA	Master of Business Administration	SW	Social Work
MC	James Madison College	SYS	Systems Science
ME	Mechanical Engineering	TC	Telecommunication
MED	Medicine	TCC	Transcollegiate Courses
MGT	Management	TE	Teacher Education
MIC	Microbiology	THR	Theatre
MS	Military Science	UP	Urban Planning
MSC	Marketing and Supply Chain Management	VM	Veterinary Medicine
MSM	Materials Science and Mechanics	WS	Women's Studies
MT	Medical Technology	ZOL	Zoology