

# DESCRIPTIONS of COURSES 1995-97

This section provides provides descriptions of all courses given by the University at both the undergraduate and graduate levels.

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 this 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 this 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

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

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

<b>A</b>	The course number and title including The course number suffix:
H	— Honors Course
1	— Type I
2	— Type II
3	— Type III
4	— Type IV
5	— Type V
	Remedial-Develop- mental-Preparatory Courses

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 a week in lecture/recitation/discussion.

C = Number of class hours a 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 alpha code and number. The course alpha codes and corresponding names are listed below. *The prerequisite may be satisfied by the course or courses indicated or equivalent background.*

C — Corequisite = a course that must be completed concurrently with another course). A corequisite is identified by course alpha code and number. The course alpha 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 alpha codes, course numbers, and course titles (example: CPS 100 Introduction to Computing) or by course names and course numbers (example: Computer Science 100). 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 alpha codes are listed below in alphabetical order. For each alpha code, the corresponding name is given.

## ALPHA CODE NAME

ACC	Accounting
ADV	Advertising
AE	Agricultural Engineering
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
BIM	Biomechanics
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
COM	Communication
CPS	Computer Science
CSS	Crop and Soil Sciences
EAD	Educational Administration
EC	Economics
EE	Electrical Engineering
EGR	Engineering
ENE	Environmental Engineering
ENG	English
ENT	Entomology
ES	Earth Science
FCE	Family and Child Ecology
FE	Food Engineering
FI	Finance and Insurance
FM	Family Medicine
FMP	Family Practice
FOR	Forestry
FRN	French
FSC	Food Science
FSM	Food Systems Economics and Management
FW	Fisheries and Wildlife
GBL	General Business and Business Law

**ALPHA****CODE NAME**

GEN Genetics  
 GEO Geography  
 GLG Geological Sciences  
 GRK Greek  
 GRM German  
 HA History of Art  
 HEB Hebrew  
 HEC Human Ecology  
 HED Human Environment and Design  
 HM Human Medicine  
 HNF Human Nutrition and Foods  
 HRI Hotel, Restaurant and Institutional Management  
 HRT Horticulture  
 HST History  
 IAH Integrative Studies in Arts and Humanities  
 IDC Interdisciplinary Courses  
 IM Internal Medicine  
 ISB Integrative Studies in Biological Sciences  
 ISP Integrative Studies in Physical Sciences  
 ISS Integrative Studies in Social, Behavioral and  
 Economic Sciences  
 ITL Italian  
 JPN Japanese  
 JRN Journalism  
 LA Landscape Architecture  
 LBS Lyman Briggs School  
 LCS Large Animal Clinical Sciences  
 LIN Linguistics  
 LIR Labor and Industrial Relations  
 LL Linguistics and Languages  
 LTN Latin  
 MC James Madison College  
 ME Mechanical Engineering  
 MED Medicine  
 MGT Management  
 ML Marketing and Logistics  
 MIC Microbiology  
 MS Military Science  
 MSM Materials Science and Mechanics  
 MT Medical Technology  
 MTH Mathematics  
 MUS Music  
 NSC Natural Science

**ALPHA****CODE NAME**

NUR Nursing  
 OGR Obstetrics, Gynecology, and Reproductive Biology  
 OM Osteopathic Medicine  
 OST Osteopathic Medicine  
 PED Pediatrics  
 PES Physical Education and Exercise Science  
 PHD Pediatrics and Human Development  
 PHL Philosophy  
 PHM Pharmacology and Toxicology  
 PHY Physics  
 PIM Integrative Management  
 PKG Packaging  
 PLS Political Science  
 PRM Public Resource Management  
 PRR Park and Recreation Resources  
 PRT Portuguese  
 PSC Psychiatry  
 PSL Physiology  
 PSY Psychology  
 PTH Pathology  
 RAD Radiology  
 RD Resource Development  
 REL Religious Studies  
 ROM Romance Languages  
 RUS Russian  
 SCS Small Animal Clinical Sciences  
 SOC Sociology  
 SPN Spanish  
 SSC Social Science  
 STA Studio Art  
 STT Statistics and Probability  
 SUR Surgery  
 SW Social Work  
 SYS Systems Science  
 TC Telecommunication  
 TCC Transcollegiate Courses  
 TE Teacher Education  
 THR Theatre  
 UP Urban Planning  
 VM Veterinary Medicine  
 WS Women's Studies  
 ZOL Zoology