



# DESCRIPTIONS of COURSES 1974

This section provides descriptions of all courses given by the University at both the undergraduate and graduate levels. The courses are listed in the schools and departments which give the instruction. The schools and departments are arranged in alphabetical sequence.

## 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.

### 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.

### 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 his major department and the department offering the course. In exceptional cases, a graduate student may petition the dean of his 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 his major department.

### 800-899 Graduate Courses

Courses with these numbers are for graduate students. Advanced undergraduates with a 3.00 or better grade-point average in their total programs may be admitted to 800-899 level courses; others, if recommended by their academic adviser and approved by their dean. *At least 23 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 candidate may take these courses with the approval of his major department.

# COURSE LISTINGS

<b>A</b>	→ 945. <i>Cost and Efficiency in Marketing</i> (555.) Spring. 3(3-0) 847, 854.
<b>B</b>	→ EC 811, STT 421 or approval of department; STT 422 recommended.
<b>C</b>	→ Theoretical framework for studies of marketing cost and efficiency. Methods of cost measurement.

This material has three categories.

- A** The course number and title.
- B** The material in italics which includes:
  - 1** The former course number in parentheses if the course number has been changed within the past 5 years.
  - 2** The term or terms the course is authorized to be given. Lack of staff or low student enrollment may preclude offering the course, particularly at the advanced level, every term for which it is authorized.
  - 3** The term credits for the course with the classroom and laboratory hours respectively within the parentheses. Special information relative to the course credit is included. 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.
  - 4** The course number(s) or other information indicate the preparation or classification prerequisite to enrollment in the course. If no department code is listed, the course number refers to the course within the same department. If a department code and course number are listed, the reference is to a course in the department indicated by the code. The department codes and the corresponding department names are listed on this page. *The prerequisite may be satisfied by the course or courses indicated or equivalent background.* If a class standing such as juniors is listed, only students with that or higher class level are eligible for enrollment. The school or department office should be consulted in cases of question as to eligibility for taking the course.
- C** A brief description of the course.

## Department Codes Used in Course Prerequisites

Codes are listed in alphabetical order by the code. The departments are listed in alphabetical sequence by their names in the pages which follow.

DEPT. CODE	DEPARTMENT NAME
ADV	Advertising
A E	Agricultural Engineering
AEC	Agricultural Economics
AFA	Accounting and Financial Administration
AFR	African Languages—See Linguistics and Oriental and African Languages
AG	Agriculture
A H	Animal Husbandry
A L	Arts and Letters
AMS	American Studies
ANP	Anthropology
ANS	Animal Science
ANT	Anatomy
ART	Art—See History of Art and Studio Art
A S	Aerospace Studies
ASC	Audiology and Speech Sciences
AST	Astronomy
ATL	American Thought and Language
B C	Building Construction—See Packaging
BCH	Biochemistry
BIO	Business Law, Insurance and Office Administration
BME	Biomechanics
BOT	Botany and Plant Pathology
BPY	Biophysics
B S	Biological Science
CAC	Communication Arts (College of)
C E	Civil Engineering
CEM	Chemistry
CHE	Chemical Engineering
CHS	Chinese—See Linguistics and Oriental and African Languages
CLA	Classical Studies
COM	Communication
C M	Community Medicine
CPS	Computer Science
C J	Criminal Justice
CSC	Crop Science

DEPT. CODE	DEPARTMENT NAME
DRY	Dairy Science
EC	Economics
ED	Education
E E	Electrical Engineering
EGR	Engineering
ENG	English
ENT	Entomology
E S	Earth Science—See Geology
FCS	Family and Child Sciences
F E	Family Ecology
F M	Family Medicine
FOR	Forestry
FRN	French—See Romance Languages
FSC	Food Science
FSM	Food Systems Economics and Management
F W	Fisheries and Wildlife
GEO	Geography
GLG	Geology
G R	German and Russian
GRK	Greek—See Romance Languages
GRM	German—See German and Russian
H A	History of Art—See Art
H D	Human Development
HED	Human Environment and Design
H M	Human Medicine (College of)
HNF	Human Nutrition and Foods
HPR	Health, Physical Education and Recreation
HRI	Hotel, Restaurant and Institutional Management
HRT	Horticulture
HST	History
HUM	Humanities
IDC	Interdisciplinary Courses
I S	Improvement Services
ITL	Italian—See Romance Languages
JAP	Japanese—See Linguistics and Oriental and African Languages
JMC	Justin Morrill College
JRN	Journalism
L A	Landscape Architecture—See Urban Planning and Landscape Architecture
LAR	Laboratory Animal Resources
LBC	Lyman Briggs College
LIN	Linguistics—See Linguistics and Oriental and African Languages
LIR	Labor and Industrial Relations
LOA	Linguistics and Oriental and African Languages
LSM	Large Animal Surgery and Medicine
LTN	Latin—See Romance Languages
M C	James Madison College
M E	Mechanical Engineering
MED	Medicine
MGT	Management
MMM	Metallurgy, Mechanics and Materials Science
MPH	Microbiology and Public Health
M S	Military Science
M T	Medical Technology
MTA	Marketing and Transportation Administration
MTH	Mathematics
MUS	Music
N E	Nursing
N R	Natural Resources
N S	Natural Science
NSC	Natural Science (College of)
OGR	Obstetrics, Gynecology and Reproductive Biology
O M	Osteopathic Medicine
PAM	Public Affairs Management
PHL	Philosophy
PHM	Pharmacology
PHS	Physical Science
PHY	Physics
PKC	Packaging
PLS	Political Science
PRR	Park and Recreation Resources
PRT	Portuguese—See Romance Languages
P S	Poultry Science
PSC	Psychiatry
PSL	Physiology
PSY	Psychology
PTH	Pathology
R D	Resource Development
R E	Racial and Ethnic Studies
REL	Religious Studies
ROM	Romance Languages
RUS	Russian—See German and Russian
SAL	South Asian Languages—See Linguistics and Oriental and African Languages
S E	Sanitary Engineering—See Civil and Sanitary Engineering
SLS	Soil Science
SOC	Sociology
SPN	Spanish—See Romance Languages
S S	Social Science
SSC	Social Science (College of)
SSM	Small Animal Surgery and Medicine
STA	Studio Art—See Art
STT	Statistics and Probability
S W	Social Work
SUR	Surgery
SYS	Systems Science—See Electrical Engineering and Systems Science
THR	Theatre
T R	Television and Radio
U C	University College
U D	Urban Development
UMS	Urban and Metropolitan Studies
U P	Urban Planning
V M	Veterinary Medicine (College of)
ZOL	Zoology