

## Degree Requirements

### Undergraduate Degree Requirements

In order to graduate, every student enrolled in a Bachelor of Science program must complete NM Tech's General Education Core Curriculum Requirements, which are listed on (page 88). This core set of requirements contains courses in humanities, mathematics, and basic science or engineering. In addition, each program has its own set of course requirements as well as the minimum number of credit hours needed to graduate.

### Graduate Degree Requirements

Graduate students must also complete a set of general requirements. In addition, each program has its own set of courses you must complete to earn the degree, as well as the minimum number of credit hours needed to graduate.

In order to graduate, every student must complete the General Degree Requirements (page 88).

## Sample Curricula

Most programs provide sample curricula to help you set your schedule. While you will graduate at the end of four years if you follow the sample curriculum faithfully, *these curricula are meant to be guides only. Talk with your advisor to chart your individual curriculum and select electives to round out your degree program.*

## New Mexico Common Course Numbering System (NMCCNS)

A common course numbering system has been devised by New Mexico colleges and universities in compliance with the New Mexico Post-Secondary Education Articulation Act. The purpose of the system is to assist New Mexico students who are transferring between institutions within the state. The system provides a neutral state wide course identifier for those courses that are similar in nature and considered to be equal in transfer. Students will find in the course description section of the catalog the state wide course identifier and the area of the General Education Common Core in brackets following the New Mexico Tech course for which the course can meet general education requirements. (See Page 38)

# General Education Core Curriculum Requirements

## Requirements for a Bachelor of Science Degree

To fulfill the general education core curriculum requirements for the Bachelor of Science degree from New Mexico Tech, each student must complete the courses listed in this section. Where there are options, the student should consult with his or her appointed advisor.

## Requirements for a Bachelor of General Studies Degree

The General Education Core Curriculum requirements for a Bachelor of General Studies are found on page 127.

### Purpose of the General Education Core Curriculum Requirements

New Mexico Tech views its general education core curriculum requirements as the foundation for a broad and meaningful educational experience for all its undergraduates. The New Mexico Tech general education core curriculum requirements prepare students to communicate and reason well, evaluate and apply information, understand human societies and cultures, deepen their sense of values and ethics, and enrich their personal lives. Additionally, the general education core curriculum requirements equip students with the analytical, language, science, and mathematics skills necessary for the specific degree requirements of their majors. The courses and their sequence in the general education core curriculum requirements are designed specifically to achieve these objectives and to prepare students for success in subsequent courses.

## **New Mexico Higher Education General Education Core Competencies**

New Mexico Tech teaches and assesses in compliance with the New Mexico Higher Education General Education Core Competencies established for Area 1: Communications; Area 2: Mathematics; Area 3: Basic Laboratory Sciences; Area 4: Social Sciences; and Area 5: Humanities.

### **Transfer Students**

Transfer students are expected to meet these general requirements in principle but are not required to present the exact duplicates of these courses. Their transcripts will be evaluated by the Registrar.

Changes in the educational program are made from time to time by action of the Faculty Senate. Students in continuous residence are assured that care will be taken to avoid unnecessary hardship caused by such changes.

### **GPA Requirements**

Some department require that their students achieve a minimum GPA in required courses. This information is listed by individual department. Student should consult their advisors for specific criteria.

## **General Degree Requirements for a Master of Science Degree**

The general requirements common to all M.S. degree curricula in the sciences and engineering fields are listed below. Additional requirements for specific curricula are listed under the appropriate department.

It is required that a student preparing for the M.S. degree:

1. Have competence in the subject matter of the standard introductory college courses in chemistry, physics, and one natural science,
2. Have a working knowledge of calculus and the content of one additional course in mathematics beyond calculus,
3. Have a minimum of six credit hours of approved upper-division or graduate course work from another department,
4. Declare a major with at least 12 credit hours of course work above the 500-level, exclusive of research credits, and
5. Complete a research project culminating in a thesis or independent study paper.

Note: These general requirements do not apply to students in the Master of Science for Teachers (MST) program. MST requirements are listed on page 57.

## **General Degree Requirements for a Doctor of Philosophy Degree**

The degree of Doctor of Philosophy requires a high level of competence in a recognized field of learning, and only those students showing unusual promise are accepted. A dissertation that contributes to the general field of knowledge must be written and defended before a committee of the faculty.

In addition to dissertation credits, course requirements for each specialty are listed under the programs and courses of instruction for each department.

# General Education Core Curriculum Requirements for a Bachelor of Science Degree

## Area 1– Communications (9 credit hours)

**ENGL 111 (3)** - ENGL 111 is waived for students who have a high enough ACT or SAT score (page 35). These students must take another course to replace the three credit hours; however, that course does not have to be an English course.

**ENGL 112 (3)** - Must meet prerequisites to enroll.

**ENGL 341 (3)** - Must meet prerequisites to enroll. Mechanical Engineering majors must use MENG 341.

## Area 2 - Mathematics (8 credit hours)

**MATH 131 (4)** - Must meet prerequisites to enroll.

**MATH 132 (4)** - Must meet prerequisites to enroll.

## Area 3 - Basic Laboratory Sciences (18 credit hours)

**PHYS 121 & 121L (5)** - Must meet prerequisites to enroll.

**PHYS 122 & 122L (5)** - Must meet prerequisites to enroll.

**CHEM 121 & 121L (4)** - Must meet prerequisites to enroll.

**CHEM 122 & 122L (4)** - Must meet prerequisites to enroll.

## Area 4 - Social Sciences (6 credit hours)

Economics (ECON)

Political Science (PS)

Psychology (PSY)

Anthropology (ANTH)

Women's and Gender Studies (WGS)

Social Science (SS)

## Area 5 - Humanities (6 credit hours)

English (ENGL), except ENGL 103, 111, 112, 341

Art History (ART)

Communication (COMM)

Music (MUS), except for performance ensembles

History (HIST)

Philosophy (PHIL)

Humanities (HUMA)

Technical Communication (TC) except TC 321, 420, 422

Theater (THEA)

Foreign Languages (SPAN, FREN, GERM)

Other languages may be counted only if they are listed or approved by the  
Communication, Liberal Arts, Social Sciences Department

## Area 6 - Additional Courses from Area 4 or 5 (6 credit hours)