# ENGINEERING TECHNOLOGY: CIVIL EMPHASIS

## General Education Core

| Code | Title | Credits |
|---|---|---|
| **Written Communication** | | |
| ENGL-101 | WRITING AND RHETORIC I | 3.00 |
| **Oral Communication** | | |
| Take one of the following: | | 3.00 |
| COMM-101 | FUNDAMENTALS OF ORAL COMMUNICATION | |
| COMM-203 | SMALL GROUP COMMUNICATION | |
| COMM-204 | PUBLIC SPEAKING | |
| **Mathematical Ways of Knowing** | | |
| Take one of the following: | | 4.00 |
| MATH-147 | PRECALCULUS | |
| MATH-170 | CALCULUS I | |
| MATH-257 | MATHEMATICS FOR ELEMENTARY TEACHERS II | |
| MTHPT-137 | MATH FOR TECHNOLOGY | |
| **Scientific Ways of Knowing** | | |
| GIS-271 | GEOGRAPHIC INFORMATION SYSTEMS | 4.00 |
| **Social & Behavioral Ways of Knowing** | | |
| Take one of the following: | | 3.00 |
| ANTH-102 | CULTURAL ANTHROPOLOGY | |
| ANTH-120 | WORLD PREHISTORY | |
| ANTH-170 | INTRODUCTION TO NATIVE AMERICAN STUDIES | |
| ECON-201 | PRINCIPLES OF MACROECONOMICS | |
| ECON-202 | PRINCIPLES OF MICROECONOMICS | |
| GEOG-102 | INTRODUCTION TO GEOGRAPHY | |
| HIST-101 | WORLD HISTORY I | |
| HIST-102 | WORLD HISTORY II | |
| HIST-111 | UNITED STATES HISTORY I | |
| HIST-112 | UNITED STATES HISTORY II | |
| HRPT-184 | DIVERSITY IN ORGANIZATIONS | |
| or SS-184 | DIVERSITY IN ORGANIZATIONS | |
| HRPT-185 | HUMAN RELATIONS IN ORGANIZATIONS | |
| or SS-185 | HUMAN RELATIONS IN ORGANIZATIONS | |
| POLS-101 | AMERICAN NATIONAL GOVERNMENT | |
| POLS-237 | INTERNATIONAL POLITICS | |
| POLS-285 | COMPARATIVE GOVERNMENT | |
| PSYC-101 | INTRODUCTION TO GENERAL PSYCHOLOGY | |
| PSYC-205 | LIFESPAN DEVELOPMENTAL PSYCHOLOGY | |
| SOC-101 | INTRODUCTION TO SOCIOLOGY | |
| SOC-102 | SOCIAL PROBLEMS | |
| **Total Credits** | | **17.00** |

## Program Requirements

| Code | Title | Credits |
|---|---|---|
| Take all of the following: | | |
| ENGTE-106 | DRAFTING FUNDAMENTALS | 6.00 |
| ENGTE-107 | ENGINEERING TECHNOLOGY DISCIPLINES | 2.00 |
| ENGTE-135 | APPLIED PHYSICS | 4.00 |
| ENGTE-154 | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 4.00 |

| | | |
|---|---|---|
| ENGTE-171 | INTRODUCTION TO GEOSPATIAL TECHNOLOGIES | 2.00 |
| ENGTE-201 | CIVIL DRAFTING | 3.00 |
| ENGTE-202 | INTRODUCTION TO SURVEY | 3.00 |
| ENGTE-205 | ADVANCED CIVIL DRAFTING AND DESIGN | 4.00 |
| ENGTE-209 | INTERMEDIATE SURVEYING | 4.00 |
| ENGTE-211 | UNMANNED AERIAL SYSTEM SURVEYING | 2.00 |
| ENGTE-219 | CONSTRUCTION SURVEYING | 2.00 |
| ENGTE-221 | GLOBAL POSITIONING CONCEPTS AND APPLICATIONS | 3.00 |
| ENGTE-246 | CONSTRUCTION AND MANUFACTURING TECHNOLOGY | 2.00 |
| Take one course from the following: | | 4.00 |
| CS-108 | INTRODUCTION TO COMPUTER SCIENCE | |
| CS-111 | COMPUTER SCIENCE 1 | |
| CS-226 | SQL: STRUCTURED QUERY LANGUAGE | |
| ENGTE-125 | 3D CAD MODELING I | |
| ENGTE-203 | UNMANNED AERIAL SYSTEMS AND IMAGERY FUNDAMENTALS | |
| ENGTE-206 | RESIDENTIAL ARCHITECTURAL DRAFTING | |
| ENGTE-207 | STRUCTURAL DRAFTING | |
| ENGTE-225 | 3-D CAD MODELING II | |
| ENGTE-272 | ADVANCED GIS AND APPLICATIONS | |
| ENGTE-273 | REMOTE SENSING AND APPLICATIONS | |
| ENGTE-290 | DIRECTED STUDY IN ENGINEERING TECHNOLOGY | |
| ENGTE-294 | INTERNSHIP IN ENGINEERING TECHNOLOGY | |
| **Total Credits** | | **45.00** |

# Sequential Plan of Study Engineering Technology: Civil Emphasis

| Course | Title | Credits |
|---|---|---|
| **First Year** | | |
| **Fall** | | |
| ENGTE-106 | DRAFTING FUNDAMENTALS | 6.00 |
| ENGTE-107 | ENGINEERING TECHNOLOGY DISCIPLINES | 2.00 |
| ENGTE-154 | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 4.00 |
| CORE | Mathematical Ways of Knowing | 4.00 |
| | **Credits** | **16.00** |
| **Spring** | | |
| ENGL-101 | WRITING AND RHETORIC I | 3.00 |
| ENGTE-135 | APPLIED PHYSICS | 4.00 |
| ENGTE-171 | INTRODUCTION TO GEOSPATIAL TECHNOLOGIES | 2.00 |
| ENGTE-246 | CONSTRUCTION AND MANUFACTURING TECHNOLOGY | 2.00 |
| Elective | Elective Credits | 4.00 |
| | **Credits** | **15.00** |
| **Second Year** | | |
| **Fall** | | |
| ENGTE-201 | CIVIL DRAFTING | 3.00 |
| ENGTE-202 | INTRODUCTION TO SURVEY | 3.00 |
| ENGTE-211 | UNMANNED AERIAL SYSTEM SURVEYING | 2.00 |
| GIS-271 | GEOGRAPHIC INFORMATION SYSTEMS | 4.00 |
| CORE | Oral Communication | 3.00 |
| | **Credits** | **15.00** |
| **Spring** | | |
| ENGTE-205 | ADVANCED CIVIL DRAFTING AND DESIGN | 4.00 |
| ENGTE-209 | INTERMEDIATE SURVEYING | 4.00 |
| ENGTE-219 | CONSTRUCTION SURVEYING | 2.00 |

| | | |
|---|---|---|
| ENGTE-221 | GLOBAL POSITIONING CONCEPTS AND APPLICATIONS | 3.00 |
| CORE | Social & Behavioral Ways of Knowing | 3.00 |
| | **Credits** | **16.00** |
| | **Total Credits** | **62.00** |