ENGGINEERING TECHNOLOGY
- INFORMATION - BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

Information Engineering Technology (IET) (https://et.nmsu.edu/academics/information-engineering-technology-iet) focusing on the study related to “information engineering” – its principles, technologies, networks, and applications. It is a vibrant discipline that has a tremendous impact on the economy as well as society. Information Engineering covers the following areas:

- Computer Programming and Coding,
- Database Technology,
- Telecommunications & Networking,
- Internet Technologies & Applications,
- Operating Systems Technology,
- Digital Forensics, and
- Information Security.

The Information Engineering Technology program is accredited (https://et.nmsu.edu/accreditation-and-assessment/degree-accreditation-information) by the Engineering Technology Accreditation Commission (ETAC) of ABET www.abet.org (http://www.abet.org)

Requirements (121 Total Credits)

General Education
State of New Mexico Common Core
Area I: Communications
ENGL 111G Rhetoric and Composition 4
Written Communications Elective (ENGL 218G Recommended) 3
Oral Communications Elective (COMM 265G Recommended) 3
Area II: Mathematics - see below
Area III: Laboratory Science - courses must be 4cr. with a lab
Select 8 credits from Biology, Chemistry, or Physics electives (with Lab) 8
Areas IV & V: Social and Behavioral Sciences & Humanities and Fine Arts: Select 15 total credits from Area IV and V, with at least 6 credits from each area. 1
Institution Specific General Education
Viewing a Wider World Electives 1 6
Program Specific Requirements
Mathematics
MATH 235 Calculus for the Technical Student I 3
or MATH 191G Calculus and Analytic Geometry I
MATH 236 Calculus for the Technical Student II 3
or MATH 192G Calculus and Analytic Geometry II
Technical
ENGR 100 Introduction to Engineering 3
A ST 311 Statistical Applications 3
BCIS 350 Information Systems Analysis and Design 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ET 182</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>ET 160</td>
<td>Introduction to Information Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>ET 203</td>
<td>Computational Foundations</td>
<td>3</td>
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or C S 278 Discrete Mathematics for Computer Science
|ET 245| Computer Hardware Fundamentals| 3|
|ET 255| Linux System Administration| 3|
|ET 262| Software Technology I| 3|
|ET 339| Introduction to Digital Forensics and Incident Response| 3|
|ET 344| Microcomputer Systems| 3|
|ET 362| Software Technology II| 3|
|ET 410| Senior Seminar| 1|
|ET 377| Computer Networking I| 3|
or ET 277 Computer Networking I for IET
|ET 435| Senior Project| 3|
|ET 439| Advanced Digital Forensics and Incident Response| 3|
|ET 458| Database Technology for Engineering| 3|
|ET 463| Advanced Linux and Python Scripting| 3|
|ET 464| Advanced Windows Server Administration| 3|
|ET 477| Computer Networking II| 3|

Total Credits 118

1 See the required courses (http://catalogs.nmsu.edu/nmsu/essential-information-students/general-education-courses) section of the catalog for a full list of courses.

2 Technical electives must be taken from a preapproved list which you can find in the ET office or online (https://et.nmsu.edu/academics/information-engineering-technology-iet). Other choices require advisor and/or department head approval

Concentration: Information Security Technology
Concentrations are "optional" educational sequences that students may choose to focus on particular areas related to their major. Concentrations may often be done without additional credits by judicious use of electives and other optional course requirements.

Students can fulfill the Information Security Technology Concentration requirements by completing the following four courses:

Technical Requirements
C S 478 Computer Security 3
BCIS 482 Management of Information Security 3
ICT 450 Ethical Hacking 3
ICT 457  Introduction to Information Security  Technology  3

Total Credits  12

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