

ENGINEERING TECHNOLOGY - INFORMATION - BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1511G Calculus and Analytic Geometry I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year

Fall		Credits
C S 172	Computer Science I	4
ET 101	Introduction to Engineering Technology and Geomatics	1
ET 160	Windows Fundamentals for IET	3
ENGL 1110G	Composition I (Area I) ¹	4
MATH 1250G	Trigonometry & Pre-Calculus (Area II) ^{1,3}	4
Credits		16
Spring		
Area IV: Social/Behavioral Sciences ¹		3
ET 182	Introduction to Digital Logic	2
ENGL 2210G	Professional & Technical Communication (Area I) ¹	3
ENGR 140	Introduction to Programming and Embedded Systems	4
MATH 1435 or MATH 1511G	Applications of Calculus I ² or Calculus and Analytic Geometry I	3 - 4
Credits		15-16

Second Year

Fall		Credits
Area V: Humanities ¹		3
COMM 1115G	Introduction to Communication (Area I) ¹	3
ET 255	Linux System Administration	3
ET 280	Web Design and Multimedia	3
MATH 1440 or MATH 1521G	Applications of Calculus II ² or Calculus and Analytic Geometry II	3 - 4
Credits		15-16
Spring		
Area III: Laboratory Sciences (Biology, Chemistry or Physics) ¹		4
Area VI: Creative and Fine Arts ¹		3
C S 278 or MATH 1531	Discrete Mathematics for Computer Science or Introduction to Higher Mathematics	3 - 4
ET 344	Microcomputer Systems	3
ET 362	Software Technology II	3
Credits		16-17

Third Year

Fall		Credits
Area III: Laboratory Sciences (Biology, Chemistry or Physics) ¹		4
BCIS 350	Information Systems Analysis and Design	3

ET 339	Introduction to Digital Forensics and Incident Response	3
ET 377	Computer Networking I	3
Technical Elective ⁴		3
Credits		16
Spring		
BCIS 475	Database Management Systems	3
ET 439	Advanced Digital Forensics and Incident Response	3
ET 477	Computer Networking II	3
Technical Elective ⁴		3
Viewing a Wider World ¹		3
Credits		15
Fourth Year		
Fall		
A ST 311	Statistical Applications	3
ET 464	Windows Enterprise Administration	3
I E 451	Engineering Economy	3
Technical Elective ⁴		3
Viewing a Wider World Course ¹		3
Credits		15
Spring		
ET 410	Senior Seminar	1
ET 435	Senior Project	3
ET 458	Web Development and Database Applications	3
ET 463	Enterprise Linux Administration	3
ICT 457 or BCIS 480	Introduction to Information Security Technology or E-Commerce Security	3
Credits		13
Total Credits		121-124

1

See the General Education (<http://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#associatesbachelorsgetext>) section of this catalog for a full list of courses. See the Viewing a Wider World (<http://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext>) section of this catalog for a full list of courses.

2

For students wishing to pursue a technical master's degree, MATH 1511G Calculus and Analytic Geometry I and MATH 1521G Calculus and Analytic Geometry II are recommended and will satisfy both the Area II and General Education Elective requirements.

Students who take MATH 1435 Applications of Calculus I and MATH 1440 Applications of Calculus II, will need to have an exception made for their degree audit.

**Students may need to take any prerequisites needed to enter the class(es) first.*

3

Elective credit may vary based on Math course selection, prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However, students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

4

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