

# ENGINEERING TECHNOLOGY - INFORMATION (INFORMATION SECURITY TECHNOLOGY) - BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY

Students must complete all university degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

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

Prefix	Title	Credits
<b>General Education</b>		
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i>		
ENGL 1110G or ENGL 1110H	Composition I Composition I Honors	4
<i>English Composition - Level 2</i>		
ENGL 2210G	Professional & Technical Communication (Recommended)	3
<i>Oral Communication</i>		
COMM 1115G or HNRS 2175G	Introduction to Communication Introduction to Communications Honors	3
<i>Area II: Mathematics</i>		
MATH 1511G or MATH 1435	Calculus and Analytic Geometry I <sup>1</sup> Applications of Calculus I	3-4
<i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i>		
Area III: Laboratory Sciences: select Biology, Chemistry, or Physics General Ed courses (8 credits) <sup>2</sup>		11
Area IV: Social/Behavioral Sciences Course (3 credits) <sup>2</sup>		
<i>Area V: Humanities<sup>2</sup></i>		
<i>Area VI: Creative and Fine Arts<sup>2</sup></i>		
<i>General Education Elective</i>		
MATH 1521G or MATH 1440	Calculus and Analytic Geometry II <sup>1</sup> Applications of Calculus II	3-4
<b>Viewing A Wider World<sup>3</sup></b>		
<b>Departmental/College Requirements</b>		
ET 160	Windows Fundamentals for IET	3
ET 182	Digital Logic <sup>4</sup>	3
ET 203 or C S 278	Computational Foundations Discrete Mathematics for Computer Science	3
ET 255	Linux System Administration	3
ET 262	Software Technology I <sup>4</sup>	3
ET 280	Multimedia Tools and Support	3
ET 339	Introduction to Digital Forensics and Incident Response <sup>4</sup>	3
ET 344	Microcomputer Systems <sup>4</sup>	3
ET 362	Software Technology II	3

ET 377 or ET 277	Computer Networking I <sup>4</sup> Computer Networking I for IET	3
ET 410	Senior Seminar	1
ET 435	Senior Project	3
ET 439	Advanced Digital Forensics and Incident Response	3
ET 458	Web Development and Database Applications	3
ET 463	Advanced Linux and Python Scripting	3
ET 464	Windows Enterprise Administration	3
ET 477	Computer Networking II <sup>4</sup>	3
IE 451	Engineering Economy	3
ENGR 100G	Introduction to Engineering	3
<i>Concentration Coursework</i>		
C S 272	Introduction to Data Structures	4
C S 478	Computer Security	3
ICT 450	Ethical Hacking	3
BCIS 482	Management of Information Security	3
<b>Non-Departmental Requirements (in addition to Gen.Ed/VWW)</b>		
A ST 311	Statistical Applications	3
C S 172	Computer Science I	4
BCIS 350	Information Systems Analysis and Design	3
BCIS 480	E-Commerce Security	3
<b>Second Language: (not required)</b>		
<b>Electives, to bring the total credits to 120</b>		<b>0</b>
Total Credits		120-122

- <sup>1</sup> For students wishing to pursue a technical master's degree, MATH 1511G Calculus and Analytic Geometry [IMATH 1511G](#) Calculus and Analytic Geometry I and MATH 1521G Calculus and Analytic Geometry II [IMATH 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 [IMATH 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.*
- <sup>2</sup> See the [General Education](#) section of the catalog for a full list of courses.
- <sup>3</sup> See the [Viewing a Wider World](#) section of the catalog for a full list of courses.
- <sup>4</sup> Courses with built-in laboratory component.

## 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.

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
ENGR 100G	Introduction to Engineering	3
ET 160	Windows Fundamentals for IET	3
ENGL 1110G or ENGL 1110H	Composition I or Composition I Honors	4

MATH 1511G or MATH 1435	Calculus and Analytic Geometry I <sup>1</sup> or Applications of Calculus I	3-4
Area IV: Social/Behavioral Sciences Course <sup>2</sup>		3
Credits		16-17
<b>Spring</b>		
ET 182	Digital Logic	3
C S 172	Computer Science I	4
MATH 1521G or MATH 1440	Calculus and Analytic Geometry II <sup>1</sup> or Applications of Calculus II	3-4
ENGL 2210G	Professional & Technical Communication	3
COMM 1115G or HNRS 2175G	Introduction to Communication or Introduction to Communications Honors	3
Credits		16-17
<b>Second Year</b>		
<b>Fall</b>		
ET 255	Linux System Administration	3
ET 262	Software Technology I	3
ET 280	Multimedia Tools and Support	3
Area III: Laboratory Sciences Course (Biology, Chemistry or Physics) <sup>2</sup>		4
Area V: Humanities Course <sup>2</sup>		3
Credits		16
<b>Spring</b>		
ET 362	Software Technology II	3
ET 344	Microcomputer Systems	3
ET 203 or C S 278	Computational Foundations or Discrete Mathematics for Computer Science	3-4
Area III: Laboratory Sciences Course (Biology, Chemistry or Physics) <sup>2</sup>		4
Area VI: Creative and Fine Arts Course <sup>2</sup>		3
Credits		16-17
<b>Third Year</b>		
<b>Fall</b>		
ET 339	Introduction to Digital Forensics and Incident Response	3
ET 377 or ET 277	Computer Networking I or Computer Networking I for IET	3
BCIS 350	Information Systems Analysis and Design	3
C S 272	Introduction to Data Structures	4
BCIS 482	Management of Information Security	3
Credits		16
<b>Spring</b>		
ET 439	Advanced Digital Forensics and Incident Response	3
ET 463	Advanced Linux and Python Scripting	3
ET 477	Computer Networking II	3
BCIS 480	E-Commerce Security	3
C S 478	Computer Security	3
Credits		15
<b>Fourth Year</b>		
<b>Fall</b>		
ET 464	Windows Enterprise Administration	3
ICT 450	Ethical Hacking	3
IE 451	Engineering Economy	3
A ST 311	Statistical Applications	3
Viewing a Wider World Course <sup>3</sup>		3
Credits		15
<b>Spring</b>		
ET 410	Senior Seminar	1

ET 435	Senior Project	3
ET 458	Web Development and Database Applications	3
Viewing A Wider World <sup>3</sup>		3
Credits		10
Total Credits		120-123

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

<sup>2</sup> See the General Education section of this catalog for a full list of courses.

<sup>3</sup> See the Viewing a Wider World section of this catalog for a full list of courses.