



Undergraduate Degree Map for Completion in Four Years

College:	College of Science, Engineering & Technology <input type="button" value="v"/>
Department:	Elec. & Computer Engineering <input type="button" value="v"/>
Name of Program:	COMPUTER ENGINEERING TECHNOLOGY <input type="button" value="v"/>
Degree Designation:	BS <input type="button" value="v"/>
Emphasis/Concentration:	<input type="text"/> <input type="button" value="v"/>
Option:	<input type="text"/>
Version:	N/A <input type="button" value="v"/>
Version Explanation:	<input type="text"/>
Type of Program:	Standard Major <input type="button" value="v"/>
Minor Required:	No <input type="button" value="v"/>
Specific Minor (if required):	<input type="text"/>

Program Description:

Computer Engineering Technology is a technological field requiring the application of scientific and engineering knowledge and methods, combined with technical skills, in support of engineering activities. A computer engineering technologist is a person who is knowledgeable in computer hardware and software design and who can apply them to a variety of industrial and consumer problems. Computers, controls/automation, robotics, instrumentation, and communications are just a few fields open to computer engineering technologists.

The program strives to prepare students for entry into the technical workforce. This means that the curriculum prepares students to:

1. Apply knowledge of science, mathematics, and engineering to problems.
2. Design, and conduct experiments as well as analyze and interpret the resulting data.
3. Design systems, components, or processes to meet specified needs.
4. Function effectively in teams
5. Identify, formulate, and solve problems in computer engineering technology.
6. Have an understanding of professional and ethical responsibilities
7. Communicate effectively

The Educational Objectives for our Bachelor of Science in Computer Engineering Technology program are to prepare our graduates to:

1. Function as responsible members of society with an awareness of social, ethical, and economic ramifications of their work.
2. Become successful practitioners in engineering and other diverse careers.
3. Succeed in full time graduate and professional studies.
4. Pursue continuing and life-long learning opportunities.
5. Pursue professional registration.
6. Provide foundational education that allows for personal growth and flexibility through their career.

Our metrics for determining success in meeting these objectives will include:

1. Assessment of societal, economic awareness, and ethical performance of our graduates by the graduate and employer.
2. Monitoring the success of our graduates in the work force.
3. Assessment of continuing and life-long learning by the graduate (and their employer as applicable).
4. Provide foundational education that allows for personal growth and flexibility through their career.

Admission Requirements:

Admission to Major is granted by the department. Minimum college admission requirements are:

-a minimum of 32 earned semester credit hours.

-a minimum cumulative GPA of 2.00 ("C-").

Contact the department for application procedures.

Advising:

You are expected to meet with your advisor on a regular basis to ensure courses are taken in an order that will lead to successful completion of the degree.

Faculty staffed general advising occurs once per semester over the course of about a week. One of the scheduled sessions must be attended by every student (undergraduate and graduate) to get the necessary access code required for registration. Sign up sheets will be available. Come to your designated session with a current copy of your DARS report and a completed curriculum advising sheet for your major.

Individual advising at other times can be arranged through your designated faculty advisor as necessary.

A complete listing of program faculty, policies, and course descriptions is available in the undergraduate bulletin.

TERM 1 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 15 credit hours
ENG	101	English Composition	4	
MATH	115	Pre-Calculus	4	
EET	113	DC Circuits	3	
EET	141	Integrated Computer Technology I	4	
		General Education	3	

Insert item

Term 1 Notes:

TERM 2 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 30 credit hours Advance to Sophomore status
CMST	102	Public Speaking	3	
MATH	121	Calculus I	4	
EET	114	AC Circuits	3	
EET	142	Integrated Computer Technology II	4	

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 30 credit hours Advance to Sophomore status
		General Education	3	

Insert item

Term 2 Notes:

TERM 3 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
PHYS	211	Principles of Physics I	4	
EET	143	Integrated Computer Technology III	4	
EET	221	Electronic CAD	3	
EET	222	Electronics I	4	
MATH	127	Calculus II for Engineering Technology: Integration	2	

Insert item

Term 3 Notes:

TERM 4 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 60 credit hours Advance to Junior status
PHYS	212	Principles of Physics II	4	
EET	223	Electronics II	4	
EET	254	Microprocessors I	4	
EET	341	Electronic Shop Practices	2	
		General Education	3	

Insert item

Term 4 Notes:

TERM 5 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Apply for Graduation
MATH	180	Mathematics for Computer Science	4	

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Apply for Graduation
EET	310	Programming Tools	4	
EET	484	Microprocessors II	4	
		General Education	3	

Insert item

Term 5 Notes:

TERM 6 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 90 credit hours Advance to Senior status
CHEM	104	Introduction to Chemistry	3	
STAT	154	Elementary Statistics	3	or STAT 354 (3)
EET	456	Analog Communications	4	
		General Education	3	

Insert item

Term 6 Notes:

TERM 7 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
MET	427	Quality Management Systems	3	
EET	461	Industrial Automation I	4	
EET	497	Internship	3	or EET 300-/400-level technical elective (3 or 4 credits)
EET	455	Advanced Power Electronics	3	or EET 300-/400-level technical elective (3 or 4 credits)
		General Education	3	

Insert item

Term 7 Notes:

TERM 8 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA ≥ 2.0 Course Completion Rate ≥ 67%
EET	430	Computer Networking I	4	
EET	441	Embedded Systems	4	
EET	462	Industrial Automation II	4	
EET	486	Digital Communications	3	or EET 300-/400-level technical elective (3 or 4 credits)

Insert item

Term 8 Notes:

PROGRAM NOTES

- Six (6) credit hours of 300-level and 400-level technical electives are required
- One additional EET technical elective may be substituted for Internship (Permission required)
- Must have 20 or more upper division EET credits at Minnesota State University, Mankato
- Must have a cumulative GPA of 2.0 or better for all upper level EET courses
- All courses including general education must be taken for a grade

DEGREE MAP CHECKLIST: GRADUATION REQUIREMENTS

<input checked="" type="checkbox"/>	1. Minimum of 15 credits per semester
<input checked="" type="checkbox"/>	2. General Education = 44 credits
<input checked="" type="checkbox"/>	3. Diverse Cultures = 2 course (6 credits minimum) from two disciplines
<input checked="" type="checkbox"/>	4. Writing Intensive = 2 courses (6 credits minimum)
<input type="checkbox"/>	5. Major = <input type="text"/> credits
<input checked="" type="checkbox"/>	6. Upper-Division Requirements = 40 credits minimum
<input checked="" type="checkbox"/>	7. Professional Education (if required) = 30 credits
<input checked="" type="checkbox"/>	8. Language Requirements (if BA) = 8 credits minimum
<input type="checkbox"/>	9. Minor = <input type="text"/> credits
<input checked="" type="checkbox"/>	10. Total credits required for degree <input type="text" value="128"/>

DEGREE MAP COMPLETE

<input checked="" type="checkbox"/>	Map is complete and ready for review <ol style="list-style-type: none"> 1. Faculty please send an email to your Department Chair when map is ready to review. 2. Department Chair please send an email to your Dean when map is ready to review. 3. Dean please send an email to the Assistant Vice President for Undergraduate Studies when map is ready to review.
-------------------------------------	---

DEAN APPROVAL

--	--



Map reviewed and approved by Dean

Save and Close