

These suggested plans apply to students entering Academic Year 2021-2022 who are placed into MA1120, Calculus with Integrated Precalc I.

Robotics Engineering Majors:

Semester 1 - Fall			Semester 2 - Spring			Semester 3 - Fall		
MA1120	Single-Variable Calculus w/Integrated Precalculus I	4	MA1121	Single-Variable Calculus w/Integrated Precalculus II	4	MA2160	Calculus w/Technology II	4
ENG1001	Engineering Problem Solving	2	ENG1100	Engineering Analysis	2	SAT2711	Linux Fundamentals	4
CS1111	Intro Programming C/C++	3	PH1100	Univ. Physics I Lab	1	PH2100	Univ. Physics I	3
	CH1000 ¹ , Intro Chemistry or Social Resp./Ethical Reason'g	3	CH1150/51 ¹	Univ. Chemistry I & Lab	4	ENG1102	Engr. Modeling & Design	3
UN1015	Composition	3	CH1153	Optional Chem. recitation	1		Critical/Creative Thinking course	3
			UN1025	Global Issues	3			
Total		15	Total		14-15	Total		17

¹Select appropriate Chemistry course in first year (CH1000 or CH1150). See university guidelines for chemistry placement. Adjust your schedule accordingly.

Electrical Engineering Majors:

Semester 1 - Fall			Semester 2 - Spring			Semester 3 - Fall		
MA1120	Single-Variable Calculus w/Integrated Precalculus I	4	MA1121	Single-Variable Calculus w/Integrated Precalculus II	4	MA2160	Calculus w/Technology II	4
ENG1001	Engineering Problem Solving	2	ENG1100	Engineering Analysis	2	CS1111	Intro. Programming in C/C++	3
CH1000 ¹	Preparatory Chemistry	3	PH1100	Univ. Physics I Lab	1	PH2100	Univ. Physics I	3
Or	Or Univ. Chemistry if well-prepared	4-5	CH1150/51 ¹	Univ. Chemistry I & Lab	4	ENG1102	Engr. Modeling & Design	3
CH1150/51/53	Social Respon./Ethical Reason'g	3	CH1153	Optional Chem. recitation	1		Critical/Creative Thinking course	3
UN1015	Composition	3	UN1025	Global Issues	3			
Total		15-17	Total		14-15	Total		16

¹Select appropriate Chemistry course in first year (CH1000 or CH1150). See university guidelines for chemistry placement. Adjust your schedule accordingly.

Computer Engineering Majors:

Semester 1 - Fall			Semester 2 - Spring			Semester 3 - Fall		
MA1120	Single-Variable Calculus w/Integrated Precalculus I	4	MA1121	Single-Variable Calculus w/Integrated Precalculus II	4	MA2160	Calculus w/Technology II	4
ENG1001	Engineering Problem Solving	2	ENG1100	Engineering Analysis	2	CS1142	Programming at the H/S	3
CS1121	Intro. to Programming I	3	PH1100	Univ. Physics I Lab	1	PH2100	Univ. Physics I	3
	2 nd Discipline Math/Science	3	CS1122	Intro. to Programming II	3	EE2174	Digital Logic and Lab	4
UN1015	Composition (or UN1025)	3	UN1025	Global Issues (or UN1015)	3		Critical/Creative Thinking or	
				Social Resp./Ethical Reason'g	3	ENG1102 ²	If considering other engg major	3
Total		15-16	Total		16	Total		17

²ENG1102 is recommended if you are considering changing your major to another engineering major, or a double-major with another engineering major. It is not needed for computer engineering and/or computer science. ENG1102 may count in Technical Electives if taken in first-year engineering fundamentals sequence.

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First-year registration information for precalculus students:

- Request your AP scores and/or transfer credit transcripts sent to MTU ASAP, if applicable. Work with your academic advisor to adjust your schedules accordingly.
- Students may *add co-curricular activities* (Physical Education), usually .5 units.
- Students who begin in MA1120 or MA1032 will take ENG1001 and ENG1100 in place of ENG1101 in first year. ENG1102 is taken in fall of 2nd year.
- Students who begin in College Algebra I, MA1030, will take their first engineering fundamentals course, ENG1101, in fall of year 2 (semester 3) with Calculus.
- Follow university requirements for general education. See [general education requirements](#).
- Consider taking your next math course during summer following first year, at a community college or at Michigan Tech.

Contact the academic advisor (EERC 131) if you have questions:

Liz Fujita, eceadvise@mtu.edu – Computer Engineers

Judy Burl, jmburl@mtu.edu – Electrical Engineers, Robotics Engineers

See all math placement information at [this link](#).

ACT math score	SAT math score	ALEKS Score	Placement course
15-21	530 & below	46-60	MA1030
22-25	540-600	61-75	MA1120 or MA1032
26-28	610-670	76-85	MA1161
29 or higher	680 & above	86-100	MA1160

Note:

MA1120 and MA1121 are similar in accomplishments to MA1032 and MA1160/61, however they integrate learning calculus earlier on.