

ECE Advising Office – EERC 131  
<http://www.mtu.edu/ece/undergraduate/advising/>

Scheduled appointments have priority over walk-ins. See above website for advisor hours.

Computer Engineers: Trever Hassell, [tjhassel@mtu.edu](mailto:tjhassel@mtu.edu)

Electrical Engineers: Judy Donahue, [eceadvise@mtu.edu](mailto:eceadvise@mtu.edu)

Call (906) **487-2550** to schedule an advising appointment, or stop in the ECE Office, **EERC 121**.

*Important Dates for Fall semester 2016:*

Monday August 29 – Classes begin.

Friday, Sept. 2 – Last day to **add** a full semester course – first-year students use orange add/drop form, before 5pm. Last day to drop a track A course (PE, MA2321&MA3521, EE1110). Refund only if dropping below 12 credits.

Wednesday Sept 7 – Last day to **add/drop** courses and attain full time status with a minimum of 12 credits, for financial aid. Last day to **drop** full semester courses online. Refund only if dropping below 12 cr. After Sept. 7, all drops must be done in Student Services. First-year students need orange form to add/drop.

Friday Sept 16, by 5pm– Last day to **drop** a full-semester course without a grade. No refund.

Tuesday Sept. 27 – Career Fair! All students should attend. <http://www.mtu.edu/career/fair/students/>

Monday Oct. 17 – Mid-term grades available online for first-year students.

Monday Oct. 17 – Track B courses begin this week.

Sunday Oct 27 – Registration for **spring 2017 classes** begins. See Registration Priority Schedule at <http://www.mtu.edu/registrar/students/registration/prepare/>

Friday Nov 4, by 5pm– Last day to **drop** full-semester course with a grade of “W”. No refund. No drops allowed after Nov 4.

Nov 21 – 25 – Thanksgiving Break.

Dec 12 – 16 – Final Exams

Learning Center Locations:

Chemistry (CH): Chem-Sci 208

Computer Science (CS): Rekhi 114

Electrical & Computer Engineering (ECE): EERC 123

Engineering Fundamentals (ENG): Dillman 208

Mathematics (MA): Fisher 234

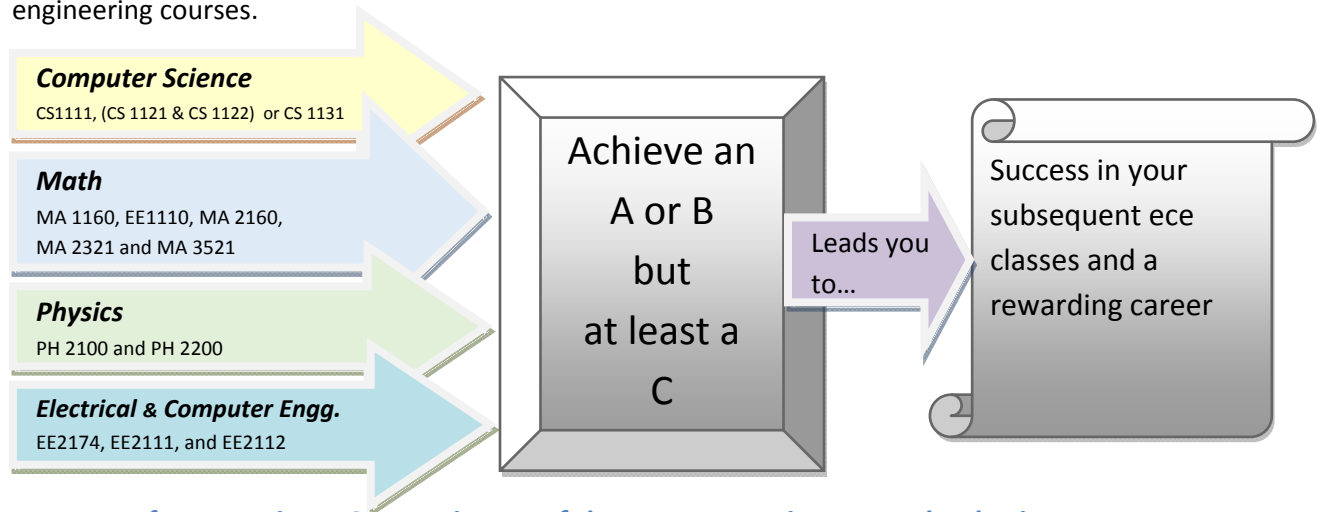
Multiliteracies: Walker 107 (help w/ writing and communication assignments for all courses)

Physics (PH): Fisher 128

# What can I do to best prepare myself to succeed in the electrical or computer engineering program at Michigan Tech?

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Success in your freshmen and sophomore core classes is critical to your continued success in the ECE engineering courses.



*If you receive a CD or D in any of the computer science, math, physics, or EE classes listed above, we strongly encourage you to retake the class BEFORE continuing on in the next class in the sequence. Math skills are significant keys to success in future ECE core classes (EExxxx).*

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## ***Information on Retaking Classes***

You may retake a class in which you receive a CD, D, or F (no more than 3 attempts per class).

A repeated course grade always replaces the prior grade. If you retake a class and receive a higher grade, this will improve your cumulative GPA. However, you could retake a class and get a lower grade. For example if you have a D (a passing grade) and retake a course and earn an F (a failing grade), you now have a failing grade in the course and would have to take the class a third time.

You may take a class up to three times. You must receive permission from the Dean of Students Office and your academic advisor to register for a class the third and final attempt. If the class that you are retaking is a required for your program, and you do not pass the class during the third attempt then you may no longer continue in the program. A 'W' (withdraw) grade does not count as an attempt.

Below is the link to the Registrar's Office policy on retaking classes.

<http://www.mtu.edu/registrar/students/registration/policies/repeat-course/>

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**Need help? Contact the ECE Advising Office, EERC 131, (906) 487-2550**

Judy – [eceadvise@mtu.edu](mailto:eceadvise@mtu.edu) Trever – [tjhassel@mtu.edu](mailto:tjhassel@mtu.edu)

## Special Approval / Restriction Waiver

### Personal Information

M Number: \_\_\_\_\_ Email: \_\_\_\_\_

Name (please print): \_\_\_\_\_  
Last First

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### Course Information

CRN #: \_\_\_\_\_ Semester / Year: \_\_\_\_\_

Course Subject / Number: \_\_\_\_\_

#### Type of Waiver

- Major (Dept) # Credits Research \_\_\_\_\_
- Level (Dept)
- Special Approval
- Prerequisite (Inst)
- Corequisite (Inst)
- Class Restriction to be Waived (Inst)

Course Dept.: \_\_\_\_\_ Date: \_\_\_\_\_

Course Instructor: \_\_\_\_\_ Date: \_\_\_\_\_

# General Education: Core & Humanities, Arts and Social Sciences (HASS)

24 credits required: 12 credits from Core & 12 credits from HASS

2016-2017

## Core Courses: 12 credits required

<b>UN1015 Composition: 3 credits</b>	<b>UN1025 Global Issues: 3 credits</b> or <b>3000-level Modern Language course: 3 credits</b>
<b>Critical and Creative Thinking: 3 credits</b> <ul style="list-style-type: none"> <li>Select one course</li> </ul> FA2330 Art Appreciation FA2520 Music Appreciation FA2720 Audio Arts Appreciation FA2820 Theatre Appreciation HU2130 Introduction to Rhetoric HU2501 American Experience in Literature HU2503 Introduction to Literature HU2538 British Experience in Literature HU2700 Introduction to Philosophy HU2820 Communication and Culture HU2910 Language and Mind SS2300 Environment and Society TA9004L Critical & Creative Thinking Core <i>(Michigan Transfer Agreement credit only)</i>	<b>Social Responsibility &amp; Ethical Reasoning: 3 credits</b> <ul style="list-style-type: none"> <li>Select one course</li> </ul> EC2001 Principles of Economics PSY2000 Introduction to Psychology SS2100 Introduction to Cultural Anthropology SS2200 Introduction to Archaeology SS2400 Introduction to Human Geography SS2500 United States History to 1877 SS2501 US History Since 1877 SS2502 European History to 1650 SS2503 European History Since 1650 SS2504 World History to 1500 SS2505 World History Since 1500 SS2600 American Government and Politics SS2610 Introduction to Law and Society SS2700 Introduction to Sociology TA9008L Social Responsibility & Ethical Reasoning Core <i>(Michigan Transfer Agreement credit only)</i>

## Humanities, Arts, and Social Sciences (HASS): 12 credits required

Students must take a minimum of 12 credits in HASS following these requirements:

- 6 credits must be upper level (3000-4999) courses
- 3 credits are required from each of the following lists:
  - Communication and Composition
  - Humanities and Fine Arts (HU/FA)
  - Social and Behavioral Sciences (EC/PSY/SS)
- No more than 3 credits from the Restricted HASS list may be counted toward the HASS requirement
- Some courses are on more than one HASS list, on a HASS list and a Core list, or on the HASS list and the STEM list, but each course can satisfy only one requirement

### Communication and Composition

- Minimum of 3 credits required

HU2810	Research & Writing in Communication	3
HU2830	Public Speaking & Multimedia	3
HU3015	Advanced Composition	3
HU3120	Technical and Professional Communication	3
HU3151	The Rhetoric of Everyday Texts	3
HU3693	Science Writing	3
HU3694	Grant Writing	3
HU3832	Advanced Digital Presentation	3
HU4628	Usability and Instructions Writing	3
HU9305L	Commun/Composition Lower Lvl ( <i>transfer credit only</i> )	3
HU9305U	Commun/Composition Upper Lvl ( <i>transfer credit only</i> )	3

### Humanities and Fine Arts (HU/FA)

- Minimum of 3 credits required

FA2123	World Music	3
FA2150	Creative Drawing	3
FA2160	Creative Practices: A Studio Course in Making Visual Art	3
FA2190	Art and Nature	3
FA2222	Film Music	3
FA2300	Two-Dimensional Design	3
FA2315	Beginning Wheel Throwing	3
FA2320	Color and Meaning	3
FA2330	Art Appreciation	3
FA2520	Music Appreciation	3
FA2600	Beginning Acting	3
FA2720	Sound in Art and Science	3
FA2820	Theatre Appreciation	3
FA3133	Contemporary Music: The Search for New Sounds	3
FA3330	Art History-Prehistory to Renaissance	3
FA3340	Art History-Renaissance to Today	3
FA3550	History of Jazz	3
FA3560	Music History	3
FA3600	Advanced Acting	3
FA3625	History of Rock	3
FA3810	Theatre History I	3
FA3821	Theatre History II	3
FA3860	Costume History	3
FA4190	Society, Art, and Environment	3

## Cocurricular Courses 2016-2017 Academic Year

Three co-curricular units are required for graduation. A unit involves the same time commitment as an academic semester credit but is not included in calculation of the GPA, nor in the overall degree-credit requirement. Repeatable courses may not be repeated for co-curricular general education credit.

As part of the co-curriculum, titles of courses successfully completed will appear on the student's transcript with a pass/fail grade. These hours will be included as "earned hours" but will not be included in "GPA hours."

Enrollment in a co-curricular activity will count toward satisfactory progress for financial aid purposes and toward status as a full-time student.

### Co-curricular Courses

AF0120	Physical Conditioning	.5
AF0130	Air Force Elite Forces Workout	1
AF0230	Precision Drill Team	.5
AF0340	Field Training	1
AR0340	Internship in Advanced Military Leadership	3
AR2068	Fall Military Physical Conditioning	1
AR2069	Spring Military Physical Conditioning	1
AR3068	Physical Training Leadership I	1
AR3069	Physical Training Leadership II	1
FA2400	Huskies Pep Band	1
FA2402	Campus Concert Band	1
FA2570	Private Music Instruction	.5
PE0101	Flag Football	.5
PE0103	Bait and Fly Casting	.5
PE0104	Ultimate Frisbee	.5
PE0105	Beginning Bowling	.5
PE0106	Beginning Golf	.5
PE0107	Floor Hockey	.5
PE0108	Broomball	.5
PE0109	Aikido	.5
PE0113	Disc Golf	.5
PE0114	Frisbee	.5
PE0115	Beginning Swimming	.5
PE0116	Beginning Basketball	.5
PE0117	Beginning Hockey	.5
PE0118	Beginning Weight Training	.5
PE0119	Beginning Fitness Training	.5
PE0120	Beginning Alpine Skiing (Downhill)	.5
PE0121	Beginning Snowboarding	.5
PE0122	Softball	.5
PE0123	Telemark Skiing	.5
PE0125	Sand Volleyball	.5
PE0126	Beginning Volleyball	.5
PE0130	Water Aerobics	.5
PE0132	Beginning Soccer	.5
PE0135	Beginning Cross Country Skiing	.5
PE0137	Table Tennis	.5
PE0138	Beginning Racquetball/Squash	.5
PE0139	Beginning Badminton	.5
PE0140	Beginning Tennis	.5
PE0145	Beginning Rifle	.5
PE0146	Beginning Billiards	.5
PE0148	Beginning Skating	.5
PE0150	Outdoor Lifetime Activities	.5
PE0151	Indoor Lifetime Activities	.5
PE0152	Social Dance I	.5
PE0153	Aerobics I	.5
PE0155	Beginning Road Biking	.5
PE0156	Beginning Mountain Biking	.5
PE0166	Moving for Fitness	.5
PE0167	Beginning Yoga	.5
PE0168	Beginning Pilates	.5
PE0169	Spinning	.5
PE0170	TaeKwonDo and Hapkido I	.5
PE0175	Hiking	.5

PE0176	Outdoor Adventure	var
PE0200	Fitness Foundations	1
PE0205	Intermediate Bowling	.5
PE0206	Intermediate Golf	.5
PE0209	Intermediate Aikido	.5
PE0210*	Special Topics in Physical Education	.5
PE0215	Intermediate Swimming	.5
PE0216	Intermediate Basketball	.5
PE0217	Intermediate Hockey	.5
PE0218	Intermediate Weight Training	.5
PE0219	Intermediate Fitness Training	.5
PE0220	Intermediate Alpine Ski (Downhill)	.5
PE0221	Intermediate Snowboarding	.5
PE0230	Water Polo	.5
PE0232	Intermediate Soccer	.5
PE0235	Intermediate Cross Country Ski	.5
PE0237	Intermediate Table Tennis	.5
PE0238	Intermediate Racquetball/Squash	.5
PE0239	Intermediate Badminton	.5
PE0240	Intermediate Tennis	.5
PE0246	Intermediate Billiards	.5
PE0248	Intermediate Skating	.5
PE0252	Social Dance II	.5
PE0253	Aerobics II	.5
PE0256	Intermediate Mountain Biking	.5
PE0266	Running for Fitness	.5
PE0267	Intermediate Yoga	.5
PE0268	Intermediate Pilates	.5
PE0270	Cardio TaeKwonDo	.5
PE0315	Fitness Swimming	.5
PE0320	Advanced Skiing	.5
PE0321	Advanced Snowboarding	.5
PE0330	Club Sports	.5
PE0340	Advanced Tennis	.5
PE0352	Social Dance III	.5
PE0353	Aerobics III	.5
PE0355	Advanced Road Biking	.5
PE0367	Mindful Yoga	.5
PE0420	Ski Instructor Training	.5
PE0421	Snowboard Instructor Training	.5
PE0425*	Intramurals	.5
PE0430	Club Sports Leadership	.5
PE0435	R.A.D. Basic Physical Defense	1
PE0450	Physical Education Fusion – Full	1
PE1470	Lifeguard Swimming	1
PE1580	Water Safety Skills	1
PE1690	Medical 1 <sup>st</sup> Responder Training	1
PE2010	Varsity Football	1
PE2020	Varsity Basketball	1
PE2028	Ski Patrol (Hill)	1
PE2030	Varsity Hockey	1
PE2040	Varsity Nordic Skiing	1
PE2050	Varsity Soccer	1
PE2080	Varsity Track	1
PE2090	Varsity Tennis	1
PE2130	Varsity Volleyball	1
PE2140	Varsity Cross Country	1
PE2150	Cross Training	1

\*PE0210 may only be repeated once for general education co-curricular credit if topics are different. PE0425 may also be repeated once for general education co-curricular credit.



EC3400	Economic Decision Analysis	3	SS3521	Energy in America	3
EC4050	Game Theory/Strategic Behavior	3	SS3530	The Automobile in America	3
EC4400	Banking and Financial Institutions	3	SS3540	History of Michigan	3
EC4500	Public Sector Economics	3	SS3541	The Copper Country	3
EC4620	Energy Economics	3	SS3552	Renaissance & Reformation	3
EC4630	Mineral Industry Economics	3	SS3553	Empires in World History	3
EC4640	Natural Resource Economics	3	SS3560	History of England I	3
EC4650	Environmental Economics	3	SS3561	History of England II	3
EC4710	Labor/Human Resource Economics	3	SS3570	History of Canada	3
EC9300L	EC HASS Elective Lower Level ( <i>transfer credit only</i> )	var	SS3581	History of Science	3
EC9300U	EC HASS Elective Upper Level ( <i>transfer credit only</i> )	var	SS3600	American Foreign Policy	3
FW3313	Sustainable Science Policy & Assessment	3	SS3610	International Law	3
FW3760	Human Dimensions of Natural Resources	3	SS3612	International Relations	3
GE4630	Mineral Industry Economics	3	SS3621	Introduction to Public Policy and Public Management	3
MGT3650	Intellectual Property Management	3	SS3630	Environmental Policy & Politics	3
PSY2000	Introduction to Psychology	3	SS3636	Perceptions of the Modern State and Governance	3
PSY2300	Developmental Psychology	3	SS3640	Selected Topics in Cyber-Law	3
PSY2400	Health Psychology	3	SS3650	Intellectual Property Management	3
PSY2600	Death and Dying	3	SS3660	Constitutional Law	3
PSY3010	Theories of Personality	3	SS3661	Civil Rights & Civil Liberties	3
PSY3020	Moral Psychology	3	SS3665	Crime, Incarceration, and Policy	3
PSY3030	Abnormal Psychology	3	SS3760	Human Dimensions of Natural Resources	3
PSY3070	Cross-Cultural Psychology	3	SS3800	Energy, Technology, and Policy	3
PSY3720	Social Psychology	3	SS3801	Science, Technology, & Society	3
PSY9300L	PSY HASS Elective Lower Level ( <i>transfer credit only</i> )	3	SS3820	Ethical, Legal, & Societal Implications (ELSI) of Nanotechnology	3
PSY9300U	PSY HASS Elective Upper ( <i>transfer credit only</i> )	3	SS3910	Histories and Cultures	3
SS2100	Introduction to Cultural Anthropology	3	SS3920	Topics in Anthropology/Archaeology	3
SS2200	Introduction to Archaeology	3	SS3950	Topics in American History	3
SS2210	Evolution of Cities	3	SS3951	Topics in European History	3
SS2300	Environment and Society	3	SS3952	Topics in World History	3
SS2400	Introduction to Human Geography	3	SS3961	Preparing for Cross-Cultural Immersion Experiences	3
SS2500	United States History to 1877	3	SS3990	Topics in the Social Science	3
SS2501	United States History since 1877	3	SS4001	History of Social Thought	3
SS2502	European History to 1650	3	SS4100	American Indian Political Issues	3
SS2503	European History since 1650	3	SS4200	Environmental Anthropology	3
SS2504	World History to 1500	3	SS4210	Global Change in Culture and Society since 1400	3
SS2505	World History since 1500	3	SS4700	Communities and Research	3
SS2600	American Government & Politics	3	SS4961	Experiential Learning Partners	2
SS2601	Politics of the European Union	3	SS9300L	SS HASS Elective Lower Level ( <i>transfer credit only</i> )	3
SS2610	Introduction to Law and Society	3	SS9300U	SS HASS Elective Upper Level ( <i>transfer credit only</i> )	3
SS2635	Comparative Politics	3	IS2002	International Studies in situ – Soc/Behav Sci ( <i>study abroad credit only</i> )	var
SS2700	Introduction to Sociology	3	IS3002	International Studies in situ – Soc/Behav Sci ( <i>study abroad credit only</i> )	var
SS3200	Historical Archaeology	3			
SS3210	Field Archaeology	var			
SS3220	Archaeological Sciences	4			
SS3230	Archaeology of Industry	3			
SS3240	Reading the Landscape	3			
SS3250	Human Origins and Evolution	3			
SS3260	Latin American Cultural History	3			
SS3270	Archaeology of the African Diaspora	3			
SS3300	Environmental Problems	3			
SS3313	Sustainable Science Policy & Assessment	3			
SS3315	Population and Environment	3	BL3970	Current Health Issues	3
SS3400	Contemporary Europe	3	ED3510	Communicating Science I	3
SS3500	Modern American History	3	GE2100	Environmental Geology	3
SS3505	Military History of the U.S.	3			
SS3510	History of American Technology	3			
SS3512	Building America	3			
SS3513	History of Making Things: Craft and Industry in America	3			
SS3515	History of American Architecture	3			
SS3520	U.S. Environmental History	3			

### **Restricted HASS**

- No more than 3 credits



## Undergraduate Curriculum Add/Drop Form

Curriculum changes must be submitted to the Registrar's Office before Wednesday of the second week of instruction to be effective for that semester. Curriculum changes received after that time will be effective for the following semester. Changes to catalog year only will be effective for the current semester.

### Current Information:

Name:	ID:
Primary Major:	Concentration:
Minor:	
Double Major:	Concentration:
Second Degree with Major/Concentration:	Catalog Term:

### Change Catalog Year Only:

New catalog year to use: The catalog selected must be within seven years prior to the student's graduation or the first term the student was enrolled as a degree-seeking student at a regionally accredited institution, whichever is shortest.

2010-11    2011-12    2012-13    2013-14    2014-15    2015-16    2016-17

For the current:    Primary Major    Minor    Double Major    Second Degree

### Additions or Changes to Current Information:

ADD    CHANGE

Primary Major \_\_\_\_\_    Concentration \_\_\_\_\_  
*(within primary curriculum)*

Double Major\* \_\_\_\_\_    Concentration \_\_\_\_\_  
*(within double major)*

Second Degree\* with Major/Concentration: \_\_\_\_\_    Minor \_\_\_\_\_

\*Note: A double major is not the same as a second degree. If you wish to pursue a second degree, you must complete a degree audit with the academic advisor in the second degree department.

Catalog term to use for new curriculum: The catalog selected must be within seven years prior to the student's graduation or the first term the student was enrolled as a degree-seeking student at a regionally accredited institution, whichever is shortest.

2010-11    2011-12    2012-13    2013-14    2014-15    2015-16    2016-17

### Drop a Curriculum Program

Primary Major \_\_\_\_\_    Primary Concentration \_\_\_\_\_

Double Major\* \_\_\_\_\_    Concentration \_\_\_\_\_

Minor \_\_\_\_\_    Second Degree\* with Major/Concentration: \_\_\_\_\_

### Signatures Required: *(Advisor signature is not required for dropped curriculum)*

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Advisor Signature

\_\_\_\_\_  
Date