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

- Computer Engineers: Trever Hassell, tjhassel@mtu.edu
- Electrical Engineers: Judy Donahue, eceadvise@mtu.edu

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

**Important Dates for Fall semester 2015:**

- Monday August 31 – Classes begin.

- Friday, Sept. 4 – 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, MA2320, EE1110). Refund only if dropping below 12 credits.

- Wednesday Sept 9 – 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. 9, all drops must be done in Student Services. First-year students need orange form to add/drop.

- Friday Sept 18, by 5pm– Last day to **drop** a full-semester course without a grade. No refund.

- Tuesday Sept. 29 – Career Fair! All students should attend. http://www.mtu.edu/career/fair/students/

- Monday Oct. 19 – Mid-term grades available online for first-year students.

- Monday Oct. 19 – Track B courses begin this week.

- Sunday Oct 29 – Registration for **spring 2016 classes** begins. See Registration Priority Schedule at http://www.mtu.edu/registrar/students/registration/prepare/

- Friday Nov 6, by 5pm– Last day to **drop** full-semester course with a grade of “W”. No refund. No drops allowed after Nov 6.


- Dec 14 – 18 – Final Exams

**Learning Center Locations:**

- Chemistry (CH): Chem-Sci 208
- Computer Sciend (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
General Education: Core and Humanities, Arts and Social Sciences (HASS)  
2015-2016

Core Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1015 Composition</td>
<td>3</td>
</tr>
<tr>
<td>UN1025 Global Issues or Modern Language-3000 level or higher</td>
<td>3</td>
</tr>
</tbody>
</table>

Goal 4 – Critical and Creative Thinking (3 credits)

- FA2330 Art Appreciation
- FA2520 Music Appreciation
- FA2720 Audio Arts Appreciation
- FA2820 Theatre Appreciation
- HU2130 Introduction to Rhetoric
- HU2503 Literary Survey A
- HU2504 Literary Survey B
- HU2538 British Experience in Literature
- HU2700 Introduction to Philosophy
- HU2820 Communication and Culture
- HU2910 Language and Mind
- SS2300 Environment and Society

Goal 8 – Social Responsibility & Ethical Reasoning (3 credits)

- 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

Humanities, Arts, and Social Sciences (HASS) (12 credits)

Students must take 12 credits from the HASS Electives (Humanities, Arts, and Social Sciences) with the following limitations:

- 6 credits must be upper division (3000-4000) level courses
- 3 credits are required from each of the following lists:
  - Communication/Composition
  - Humanities/Fine Arts (HU/FA)
  - Social and Behavioral Science (EC/PSY/SS)
- No more than 3 credits from the Restricted List
- Each course can satisfy only one requirement

International Study Abroad for HASS Courses

General Education international transfer credit, for students who participate in an international study abroad experience, will be assigned by International Programs and Services (IPS). It is understood that IPS will apply non-MTU courses based on their being equivalent or congruent with existing general education courses.

Communication/Composition

at least 3 credits

- 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
- HU3832 Advanced Digital Presentation 3
- HU4628 Usability and Instructions Writing 3
- HU4693 Science Writing 3
- HU4694 Grant Writing 3

Humanities/Fine Arts (HU/FA)

at least 3 credits

- FA2150 Creative Drawing 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 Audio Arts Appreciation 3
- FA2820 Theatre Appreciation 3
- FA3133 Contemporary Music: The Search for New Sounds 3
- FA3300 Three-Dimensional Design 3
- FA3330 Art History-Prehistory to Renaissance 3
- FA3340 Art History-Renaissance to Today 3
- FA3350 Design History 3
- FA3550 History of Jazz 3
- FA3560 Music History 3
- FA3600 Advanced Acting 3
- FA3625 History of Rock 3
- FA3810 Ancient Theatre History 3
- FA3821 Modern Theatre History 3
- FA3860 Costume History 3
- FA4190 Art and Nature 3
- FA4620 Musical Theatre Performance 3
- HU2130 Introduction to Rhetoric 3
- HU2271 Level I-A French Language & Culture 3
- HU2272 Level I-B French Language & Culture 3
- HU2273 Transitional Level I French Language & Culture 3
- HU2281 Level I-A German Language & Culture 3
- HU2282 Level I-B German Language & Culture 3
- HU2291 Level I-A Spanish Language & Culture 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HU2292</td>
<td>Level I-B Spanish Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU2293</td>
<td>Transitional Level I Spanish Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU2324</td>
<td>Introduction to Film</td>
<td>3</td>
</tr>
<tr>
<td>HU2400</td>
<td>Introduction to Diversity Studies</td>
<td>3</td>
</tr>
<tr>
<td>HU2500</td>
<td>Introduction to Textual Analysis</td>
<td>3</td>
</tr>
<tr>
<td>HU2503</td>
<td>Literary Survey A</td>
<td>3</td>
</tr>
<tr>
<td>HU2504</td>
<td>Literary Survey B</td>
<td>3</td>
</tr>
<tr>
<td>HU2510</td>
<td>Intro to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>HU2538</td>
<td>British Experience in Literature</td>
<td>3</td>
</tr>
<tr>
<td>HU2548</td>
<td>Young Adult Literature</td>
<td>3</td>
</tr>
<tr>
<td>HU2700</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>HU2702</td>
<td>Ethical Theory and Moral Problems</td>
<td>3</td>
</tr>
<tr>
<td>HU2810</td>
<td>Research &amp; Writing in Communication</td>
<td>3</td>
</tr>
<tr>
<td>HU2820</td>
<td>Communication and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU2830</td>
<td>Public Speaking &amp; Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>HU2910</td>
<td>Language and Mind</td>
<td>3</td>
</tr>
<tr>
<td>HU2920</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td>HU3015</td>
<td>Introduction to Film</td>
<td>3</td>
</tr>
<tr>
<td>HU3120</td>
<td>Technical and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>HU3130</td>
<td>Rhetorics of Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>HU3150</td>
<td>Topics in Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>HU3151</td>
<td>The Rhetoric of Everyday Texts</td>
<td>3</td>
</tr>
<tr>
<td>HU3263</td>
<td>Topics in German-Speaking Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3264</td>
<td>Topics in Spanish-Speaking Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3271</td>
<td>Level II-A French Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3272</td>
<td>Level II-B French Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3274</td>
<td>Level II-C French Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3275</td>
<td>French for Special Purposes</td>
<td>3</td>
</tr>
<tr>
<td>HU3280</td>
<td>Level I-C German Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3281</td>
<td>Level II-A German Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3282</td>
<td>Level II-B German Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3283</td>
<td>Level II German for Special Purposes</td>
<td>3</td>
</tr>
<tr>
<td>HU3284</td>
<td>Level III German Literature &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3285</td>
<td>Level III German Film &amp; Media</td>
<td>3</td>
</tr>
<tr>
<td>HU3291</td>
<td>Level II-A Spanish Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3292</td>
<td>Level II-B Spanish Language &amp; Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3293</td>
<td>Level II-C Spanish Composition &amp; Conversation</td>
<td>3</td>
</tr>
<tr>
<td>HU3294</td>
<td>Hispanic Literatures and Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3295</td>
<td>Level III Advanced Spanish for Literacies</td>
<td>3</td>
</tr>
<tr>
<td>HU3296</td>
<td>Introduction to Hispanic Literatures and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>HU3325</td>
<td>Film History and Theory</td>
<td>3</td>
</tr>
<tr>
<td>HU3400</td>
<td>Topics in Diversity Studies</td>
<td>3</td>
</tr>
<tr>
<td>HU3502</td>
<td>Mytoologies</td>
<td>3</td>
</tr>
<tr>
<td>HU3504</td>
<td>Studies in the Novel</td>
<td>3</td>
</tr>
<tr>
<td>HU3505</td>
<td>Forms, Genres, and Modes</td>
<td>3</td>
</tr>
<tr>
<td>HU3506</td>
<td>Major Authors</td>
<td>3</td>
</tr>
<tr>
<td>HU3507</td>
<td>Critical Studies in Periods and Movements</td>
<td>3</td>
</tr>
<tr>
<td>HU3513</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>HU3514</td>
<td>Workshop Creative Nonfiction</td>
<td>3</td>
</tr>
<tr>
<td>HU3515</td>
<td>Workshop in Poetry</td>
<td>3</td>
</tr>
<tr>
<td>HU3516</td>
<td>Workshop in Fiction</td>
<td>3</td>
</tr>
<tr>
<td>HU3545</td>
<td>Literature Across Borders</td>
<td>3</td>
</tr>
<tr>
<td>HU3557</td>
<td>Literature and Science</td>
<td>3</td>
</tr>
<tr>
<td>HU3621</td>
<td>Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>HU3700</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>HU3701</td>
<td>Philosophy of Technology</td>
<td>3</td>
</tr>
<tr>
<td>HU3702</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>HU3710</td>
<td>Engineering Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HU3711</td>
<td>Biomedical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HU3800</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>HU3810</td>
<td>Technology and Cultural Theory</td>
<td>3</td>
</tr>
<tr>
<td>HU3820</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>HU3830</td>
<td>Creativity, Culture, &amp; Change</td>
<td>3</td>
</tr>
<tr>
<td>HU3832</td>
<td>Advanced Digital Presentation</td>
<td>3</td>
</tr>
<tr>
<td>HU3840</td>
<td>Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>HU3850</td>
<td>Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>HU3860</td>
<td>Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>HU3871</td>
<td>New Media Theory</td>
<td>3</td>
</tr>
<tr>
<td>HU3910</td>
<td>Global Language Issues</td>
<td>3</td>
</tr>
<tr>
<td>HU3940</td>
<td>Language and Identity</td>
<td>3</td>
</tr>
<tr>
<td>HU4271</td>
<td>Modern Language Seminar I-French</td>
<td>3</td>
</tr>
<tr>
<td>HU4272</td>
<td>Modern Language Seminar II-French</td>
<td>3</td>
</tr>
<tr>
<td>HU4273</td>
<td>Modern Language Seminar III-French</td>
<td>3</td>
</tr>
<tr>
<td>HU4281</td>
<td>Modern Language Seminar I-German</td>
<td>3</td>
</tr>
<tr>
<td>HU4282</td>
<td>Modern Language Seminar II-German</td>
<td>3</td>
</tr>
<tr>
<td>HU4283</td>
<td>Modern Language Seminar III-German</td>
<td>3</td>
</tr>
<tr>
<td>HU4289</td>
<td>Modern Language Seminar I-Spanish</td>
<td>3</td>
</tr>
<tr>
<td>HU4292</td>
<td>Modern Language Seminar II-Spanish</td>
<td>3</td>
</tr>
<tr>
<td>HU4293</td>
<td>Modern Language Seminar III-Spanish</td>
<td>3</td>
</tr>
<tr>
<td>HU4295</td>
<td>Modern Language Seminar I-Spanish</td>
<td>3</td>
</tr>
<tr>
<td>HU4296</td>
<td>Modern Language Seminar II-Spanish</td>
<td>3</td>
</tr>
<tr>
<td>HU4297</td>
<td>Modern Language Seminar III-Spanish</td>
<td>3</td>
</tr>
<tr>
<td>HU4510</td>
<td>Modern Language Seminar III-Spanish</td>
<td>3</td>
</tr>
<tr>
<td>HU4625</td>
<td>Risk Communication</td>
<td>3</td>
</tr>
<tr>
<td>HU4628</td>
<td>Usability and Instructions Writing</td>
<td>3</td>
</tr>
<tr>
<td>HU4693</td>
<td>Science Writing</td>
<td>3</td>
</tr>
<tr>
<td>HU4694</td>
<td>Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>HU4701</td>
<td>Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>HU4800</td>
<td>Media and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>HU4890</td>
<td>Topics in Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social and Behavioral Science (EC/PSY/SS)**

- **at least 3 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC2001</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC3002</td>
<td>Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>EC3003</td>
<td>Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>EC3100</td>
<td>International Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC3300</td>
<td>Industrial Organization</td>
<td>3</td>
</tr>
<tr>
<td>EC3400</td>
<td>Economic Decision Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EC4050</td>
<td>Game Theory/Strategic Behavior</td>
<td>3</td>
</tr>
<tr>
<td>EC4400</td>
<td>Banking and Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>EC4620</td>
<td>Energy Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC4630</td>
<td>Mineral Industry Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC4640</td>
<td>Natural Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>EC4650</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>FW3313</td>
<td>Sustainable Science Policy &amp; Assessment</td>
<td>3</td>
</tr>
<tr>
<td>FW3760</td>
<td>Human Dimensions of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>GE4630</td>
<td>Mineral Industry Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGT3650</td>
<td>Intellectual Property Management</td>
<td>3</td>
</tr>
<tr>
<td>PSY2000</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY2300</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY2400</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY2600</td>
<td>Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>PSY3010</td>
<td>Theories of Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSY3020</td>
<td>Moral Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY3030</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY3070</td>
<td>Cross-Cultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY3720</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SS2100</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SS2200</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>SS2210</td>
<td>Evolution of Cities</td>
<td>3</td>
</tr>
<tr>
<td>SS2300</td>
<td>Environment and Society</td>
<td>3</td>
</tr>
<tr>
<td>SS2400</td>
<td>Introduction to Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>SS2500</td>
<td>United States History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>SS2501</td>
<td>United States History Since 1877</td>
<td>3</td>
</tr>
<tr>
<td>SS2502</td>
<td>European History to 1650</td>
<td>3</td>
</tr>
<tr>
<td>SS2503</td>
<td>European History Since 1650</td>
<td>3</td>
</tr>
<tr>
<td>SS2504</td>
<td>World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>SS2505</td>
<td>World History Since 1500</td>
<td>3</td>
</tr>
<tr>
<td>SS2600</td>
<td>American Government &amp; Politics</td>
<td>3</td>
</tr>
<tr>
<td>SS2601</td>
<td>Politics of the European Union</td>
<td>3</td>
</tr>
<tr>
<td>SS2610</td>
<td>Introduction to Law and Society</td>
<td>3</td>
</tr>
<tr>
<td>SS2635</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>SS2700</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SS3110</td>
<td>Food Systems</td>
<td>3</td>
</tr>
<tr>
<td>SS3200</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>SS3230</td>
<td>Archaeology of Industry</td>
<td>3</td>
</tr>
<tr>
<td>SS3240</td>
<td>Reading the Landscape</td>
<td>3</td>
</tr>
<tr>
<td>SS3250</td>
<td>Human Origins and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>SS3260</td>
<td>Latin American Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>SS3270</td>
<td>Archaeology of the African Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>SS3300</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>SS3313</td>
<td>Sustainable Science Policy &amp; Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SS3315</td>
<td>Population and Environment</td>
<td>3</td>
</tr>
<tr>
<td>SS3400</td>
<td>Contemporary Europe</td>
<td>3</td>
</tr>
<tr>
<td>SS3410</td>
<td>World Resources &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>SS3500</td>
<td>Modern American History</td>
<td>3</td>
</tr>
<tr>
<td>SS3505</td>
<td>Military History of the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>SS3510</td>
<td>History of American Technology</td>
<td>3</td>
</tr>
<tr>
<td>SS3511</td>
<td>History of Science in America</td>
<td>3</td>
</tr>
<tr>
<td>SS3512</td>
<td>Building America</td>
<td>3</td>
</tr>
<tr>
<td>SS3515</td>
<td>History of American Architecture</td>
<td>3</td>
</tr>
<tr>
<td>SS3520</td>
<td>U.S. Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>SS3521</td>
<td>Energy in America</td>
<td>3</td>
</tr>
<tr>
<td>SS3530</td>
<td>The Automobile in America</td>
<td>3</td>
</tr>
<tr>
<td>SS3540</td>
<td>History of Michigan</td>
<td>3</td>
</tr>
<tr>
<td>SS3541</td>
<td>The Copper Country</td>
<td>3</td>
</tr>
<tr>
<td>SS3552</td>
<td>Renaissance &amp; Reformation</td>
<td>3</td>
</tr>
<tr>
<td>SS3560</td>
<td>History of England I</td>
<td>3</td>
</tr>
<tr>
<td>SS3561</td>
<td>History of England II</td>
<td>3</td>
</tr>
<tr>
<td>SS3570</td>
<td>History of Canada</td>
<td>3</td>
</tr>
<tr>
<td>SS3580</td>
<td>Technology &amp; Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SS3581</td>
<td>History of Science</td>
<td>3</td>
</tr>
<tr>
<td>SS3600</td>
<td>American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>SS3610</td>
<td>International Law</td>
<td>3</td>
</tr>
<tr>
<td>SS3612</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>SS3630</td>
<td>Environmental Policy &amp; Politics</td>
<td>3</td>
</tr>
<tr>
<td>SS3635</td>
<td>Climate Adaptation</td>
<td>3</td>
</tr>
<tr>
<td>SS3640</td>
<td>Selected Topics in Cyber-Law</td>
<td>3</td>
</tr>
<tr>
<td>SS3650</td>
<td>Intellectual Property Management</td>
<td>3</td>
</tr>
<tr>
<td>SS3660</td>
<td>Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>SS3661</td>
<td>Civil Rights &amp; Civil Liberties</td>
<td>3</td>
</tr>
<tr>
<td>SS3700</td>
<td>Industry and Society</td>
<td>3</td>
</tr>
<tr>
<td>SS3710</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SS3750</td>
<td>Social Inequality</td>
<td>3</td>
</tr>
<tr>
<td>SS3760</td>
<td>Human Dimensions of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>SS3800</td>
<td>Energy, Technology, and Policy</td>
<td>3</td>
</tr>
<tr>
<td>SS3801</td>
<td>Science, Technology, &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>SS3820</td>
<td>Ethical, Legal, &amp; Societal Implications (ELSI) of Nanotechnology</td>
<td>3</td>
</tr>
<tr>
<td>SS3910</td>
<td>Histories and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>SS3920</td>
<td>Topics in Anthropology/Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>SS3950</td>
<td>Topics in American History</td>
<td>3</td>
</tr>
<tr>
<td>SS3951</td>
<td>Topics in European History</td>
<td>3</td>
</tr>
<tr>
<td>SS3952</td>
<td>Topics in World History</td>
<td>3</td>
</tr>
<tr>
<td>SS3960</td>
<td>International Experience</td>
<td>var</td>
</tr>
<tr>
<td>SS3961</td>
<td>Preparing for Cross-Cultural Immersion</td>
<td></td>
</tr>
<tr>
<td>SS3990</td>
<td>Topics in the Social Science</td>
<td>3</td>
</tr>
<tr>
<td>SS4001</td>
<td>History of Social Thought</td>
<td>3</td>
</tr>
<tr>
<td>SS4100</td>
<td>American Indian Political Issues</td>
<td>3</td>
</tr>
<tr>
<td>SS4200</td>
<td>Environmental Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SS4210</td>
<td>Global Change in Culture and Society Since 1400</td>
<td>3</td>
</tr>
<tr>
<td>SS4390</td>
<td>Seminar in Sustainability Issues</td>
<td>var</td>
</tr>
<tr>
<td>SS4700</td>
<td>Communities and Research</td>
<td>3</td>
</tr>
<tr>
<td>SS4961</td>
<td>Experiential Learning Partners</td>
<td>3</td>
</tr>
</tbody>
</table>

**HASS Restricted List**

- No more than 3 credits

- **BL3970** Current Health Issues 3
- **ED3510** Communicating Science I 3
- **GE2100** Environmental Geology 3

**Approved Transfer Electives**

- **EC9300L** EC HASS Elective Lower
- **EC9300U** EC HASS Elective Upper
- **FA9300L** FA HASS Elective Lower
- **FA9300U** FA HASS Elective Upper
- **HU9300L** HU HASS Elective Lower
- **HU9300U** HU HASS Elective Upper
- **PSY9300L** PSY HASS Elective Lower
- **PSY9300U** PSY HASS Elective Upper
- **SS9300L** SS HASS Elective Lower
- **SS9300U** SS HASS Elective Upper
- **TA9004L** LG4 CORE Elective Lower
- **TA9005L** Communication Elective Lower
- **TA9005U** Communication Elective Upper
- **TA9008L** LG8 CORE Elective Lower

---

[http://www.mtu.edu/registrar/pdfs/Cocurricular-Courses.pdf](http://www.mtu.edu/registrar/pdfs/Cocurricular-Courses.pdf)
Co-curricular course list

PE, AF, AR, FA

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

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

**Computer Science**
CS1111, (CS 1121 & CS 1122) or CS 1131

**Math**
MA 1160, EE1110, MA 2160, MA 2321 and MA 3521

**Physics**
PH 2100 and PH 2200

**Electrical & Computer Engg.**
EE2174, EE2111, and EE2112

Achieve an A or B but at least a C

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 (EExxx).

**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/

Need help? Contact the ECE Advising Office, EERC 131, (906) 487-2550
Judy – eceadvise@mtu.edu  Trever – tjhassel@mtu.edu
Special Approval / Restriction Waiver

Personal Information

M Number: ___________________________ Email: ___________________________

Name (please print): ______________________________________________________

Last First

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: ____________
ECE Enterprise Enrollment Guide 2015-2016

ECE Department Enterprises: Sections L02, L03 and L04

BMSE (L02) – Blue Marble Security Enterprise, EERC 637  Advisor: Dr. Glen Archer, EERC 629
WCE (L03) – Wireless Communication Enterprise, EERC 621  Advisor: Mr. Kit Cischke, EERC 520
HEVE (L04) Hybrid Electric Vehicle  Advisors: Dr. John Lukowski, EERC 233  Mr. Robert Page, MEEM 604A

- Teams of undergraduate students working on projects across many industries and applications.
- Joining an enterprise is optional.
- See the enterprise list online for information about all the enterprises at Tech.
- You may obtain a concentration in Enterprise or a minor in Enterprise with your major.
- You may complete your engineering design requirements in the enterprise program.
- You may switch enterprises between semesters except in your last two semesters.
- Optional one-credit enterprise modules supplement the enterprise program. See ‘ENT’ courses online.
- See your academic advisor to find out how enterprise (ENT) credits may apply to your degree.

Enterprise Program director and Enterprise Minor advisor: Dr. Mary Raber, M&M 722

Enterprise course codes: with recommendation of when to join based on expected graduation semester.

Freshmen level:
ENT1950 – Orientation to Enterprise program - fall of first year; graded pass/fail; may not apply to degree
ENT1960 – Project work – join when you are in MA2160

Sophomore level:
ENT2950 – Project work - join when you are in EE2111
ENT2960 – Project work - join when you are in EE2112

Junior level:

Begin design sequence for EE & CpE majors: join ENT3950 when you have 4 semesters remaining @Tech.
ENT3950 – Project work - join as you begin the JR level core required courses (EE3131)
ENT3960 – Project work - complete senior design pre-requisites by end of this semester *see below

Senior level:  Must be ‘Senior Design Ready’ to enroll. ENT4950 & ENT4960 must be consecutive and in same enterprise. If you do not have pre-reqs complete for ENT4950, skip a semester of enterprise or enroll in ENT3980 if you wish to participate that semester. ENT3980 does not apply to your engineering design requirements.

ENT4950 – Project work; 2 credits; Complete permission form for enrollment. Take with or after EE3171/3173.
ENT4960 – Project work; 2 credits;

Ends engineering design sequence
ENT4961 - Project work; 1 credit. Optional, additional semester(s) in enterprise

To REGISTER for enterprise project work, print a Waiver Form (special approval), meet with the enterprise faculty advisor for approval signature. List section number and CRN that pertain to the enterprise you are joining. Bring completed waiver forms to the Student Services Center. If you are uncertain which course number (above list) to use, see your academic advisor! Don’t guess.

*Engineering design pre-requisites: when you are “Senior Design Ready” – Take ENT4950
EE3131, Electronics, and EE3901, Design Fundamentals, must be complete in order to enroll in ENT4950.
EE3171(EE’s) or EE3173(CpE’s) must be complete in order to enroll in ENT4960.
These suggested plans apply to students entering Academic Year 2015-2016 who are not ready for calculus.

**Fall 2015 Recommended Schedules for Pre-Calculus ECE Students**

**EE Majors:**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA1032 Pre-calculus 4</td>
<td>MA1161 Calculus Plus w/ Tech 1 5</td>
<td>MA2160 Calculus II 4</td>
</tr>
<tr>
<td>ENG1001 Engineering Problem Solving 2</td>
<td>ENG1100 Engineering Analysis 2</td>
<td>EE 1110 Essential Math for EE’s 1</td>
</tr>
<tr>
<td>CH1000* Preparatory Chemistry 3</td>
<td>PH1100 Univ. Physics I Lab 1</td>
<td>PH2100 Univ. Physics I 3</td>
</tr>
<tr>
<td>Or CH1150/51/53 or Univ. Chemistry if well-prepared 4-5</td>
<td>EE1111 ECE 1.0 1</td>
<td>ENG1102 Engr. Modeling &amp; Design 3</td>
</tr>
<tr>
<td>Goal 4 or Goal 8 elective 3</td>
<td>CH1150/51 Univ. Chemistry I &amp; Lab 4</td>
<td>CS1111 Intro. Programming in C/C++ 3</td>
</tr>
<tr>
<td>UN1015 Composition 3</td>
<td>CH1153 Optional Chem. recitation 1</td>
<td>HASS elective 3</td>
</tr>
<tr>
<td>UN1025 Global Issues 3</td>
<td>Total 15/17</td>
<td>Total 16-17</td>
</tr>
</tbody>
</table>

*Select appropriate Chemistry course in first semester. See university guidelines for chemistry placement. Adjust your schedule accordingly.

**CpE Majors:**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Semester 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA1032 Pre-calculus 4</td>
<td>MA1161 Calculus Plus w/ Tech 1 5</td>
<td>MA2160 Calculus II 4</td>
</tr>
<tr>
<td>ENG1001 Engineering Problem Solving 2</td>
<td>ENG1100 Engineering Analysis 2</td>
<td>EE 1110 Essential Math for EE’s 1</td>
</tr>
<tr>
<td>CS1121 Intro. to Programming I 3</td>
<td>EE1111 ECE 1.0 1</td>
<td>PH2100 Univ. Physics I (or a CS course) 3</td>
</tr>
<tr>
<td>Goal 4 or Goal 8 elective 3</td>
<td>PH1100 Univ. Physics I Lab 1</td>
<td>EE2174 Digital Logic and Lab 4</td>
</tr>
<tr>
<td>UN1015 Composition 3</td>
<td>CS1122 Intro. to Programming II 3</td>
<td>HASS elective or (ENG1102)** If considering other engg major 3</td>
</tr>
<tr>
<td>UN1025 Global Issues 3</td>
<td>Total 15</td>
<td>Total 15</td>
</tr>
</tbody>
</table>

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

Have your AP and transfer credits sent to MTU ASAP, if applicable. Adjust your schedules accordingly.

Students may **add co-curricular activities** (Physical Education), usually .5 units.

Students who begin in a pre-calculus course will take ENG1001 and ENG1100 in place of ENG1101 in first year. ENG1102 is taken in fall of 2nd year.

Follow university requirements for **general education**.

- Goal 4 = Critical and Creative Thinking list: Choose one course.
- Goal 8 = Responsibility and Ethical Reasoning list: Choose one course.
- HASS = Humanities or Fine Arts Electives list. See general education rules.

Contact academic advisor for questions: Judy Donahue, EERC 131, eceadvis@mtu.edu

---

**ALEKS placement**

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA1030</td>
</tr>
<tr>
<td>MA1032</td>
</tr>
<tr>
<td>MA1161</td>
</tr>
<tr>
<td>MA1160</td>
</tr>
</tbody>
</table>