Electrical & Computer Engineering at Michigan Tech

ECE Main Office: Michele Kamppinen  EERC 121
Schedule appointments:  487-2550  & EERC 121

Academic Advising Office:  EERC 131

Typical EE Advising Office Hours:
By appointment or
M-F 8:30-Noon
M-F 2-3:45

Electronic Engineers
Judy Donahue
eceadvise@mtu.edu

Computer Engineers
Trever Hassell
tjhassel@mtu.edu

Important advising sites:
mtu.edu/ece/undergraduate/advising
blogs.mtu.edu/jmdonahu/  (ECE advisor BLOG)
mtu.edu/registrar/students/registration/

Fall Advising Meetings are required Sept/Oct/Nov

CpE Advising Hours:
Appointment suggested
M-F 8:30-10:30am
MW 2-4:30pm
Department of Electrical and Computer Engineering

Electrical & Computer Engineering at Michigan Tech

Undergraduate Advising

Undergraduate Advising

Advising Reminders

Wednesday, May 24, 2017

- New Rule: CPE majors (& CPE/EE) may not pursue CS nor EE minor.
- CPE majors: Departmental GPA will include EE and CS courses beginning Fall 2017.
- To schedule an advising appt, call 487-2550 or go to EERC121
- Registration for Fall 2017 is OPEN for current students.
- December 2017 graduates: Complete your graduation application
- Spring Advising Meetings: All

Advising Resources

Computer Engineering
Electrical Engineering
Search advising questions
Photonics Program
ECE Focus Areas
Concentrations
Joining an enterprise
Dean of Students
Feeling stressed. What can I do?
Change major or add a minor

Quick Links

Prepare for Registration
UG Course Catalog
Special Approval/Restriction Waiver
Enterprise Design Verification
Enterprise Project Summary
Semester Planning Worksheet
Curriculum Add/Drop Form
Catalog Term:
- based on year you began at Tech
- your catalog term is Fall 2017, coded as “201708”
- Degree requirements are defined by catalog term

Your Flowchart:
- Follows requirements for your major and catalog year.
- Sample 4-year plan

“pdf” degree audit form
- Official degree requirements document
- Access on Degree Services Website under “Majors”

Academic Plan:
- Create your own plan as you progress and make academic and career decisions

Online Degree Audit report:
- Review your report each time you schedule or change classes
- Access in Banweb - Student Records
Staying on Track

Canvas Course:
2017 Incoming Electrical and Computer Engineering

• First year key advising information
• Quizzes are really checklist items
• Important items such as:
  • How to register
  • Become familiar with University Policies
  • How to run your Degree Audit Report
  • Etc…

• 2nd year rolls into a Canvas Course which follows the Advising Checklist on the Advising Syllabus

When should I:

<table>
<thead>
<tr>
<th>Study Abroad?</th>
<th>Create my resume?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Take a co-op?</td>
<td>Join a student organization?</td>
</tr>
<tr>
<td>Join Enterprise?</td>
<td>Apply for graduation?</td>
</tr>
<tr>
<td>See an advisor?</td>
<td>J</td>
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</table>
CS1121 Intro to Programming I
CS1131 Accelerated Intro to Programming

CS1131 (5) may be taken in lieu of both CS1121 (3) and CS1122(3)

CS1131 is offered in Fall only

You will be ready for sophomore CS courses after CS1122 or CS1131

CS Knowledge Assessment: online Canvas Survey/Assessment
  • You need to take this in order to be place in a CS1121/1131
  • http://www.mtu.edu/cs/undergraduate/placement/
  • Questions contact:
    • Pro. Ureel at ureel@mtu.edu or 209 Rekhi
    • Ridwan Kahn at ridwank@mtu.edu

EE majors considering a CS minor or CpE or CS major, should take CS1121 (may use in place of CS1111). Take the CS Knowledge Assessment if you’ve have previous programming experience.
CS1121 / CS1131 : how to succeed
and CS1111 for EE’s

Go to all your lectures & labs and pay attention.

Start homework right away – DO NOT PROCRASTINATE !!

If you don’t understand something, get help right away.
- Instructor office hours
- CS Learning Center  Rekhi 114

Do not copy code. Do your own work.
  Be able to develop your own logic steps and write your own code.

F*
Not required for CpE’s:  
1) CH1150/51 University Chemistry I .................. 2\textsuperscript{nd} Discipline Math/ Science Elective 
2) ENG1102 Engineering Modeling & Design .... CpE Technical Elective 
3) MA3160 Multivariable Calculus...................... Math/ Science Elective

May count as:

Are you on the fence about CpE or CS? Or sure of CpE?
If you are certain you will not switch to a different engineering major in future, or are undecided between CpE and CS. It is safe not to take Chemistry and ENG1102. You can take a different math/sci elective later on. Take ENG1101 or ENG1001 & ENG1100.

Follow your flowchart.

Are you on the fence about CpE or EE? or Interested in another engineering major?

If so, plan to take University Chemistry and ENG1102. Both courses are required for all other engineering majors including EE. Chemistry may be postponed.
Electrical & Computer Engineering at

Michigan Tech

Chemistry placement

CH1000 or CH1150?
Make sure you’re in the right chemistry

• Take CH1000 — If you did not take H.S. chemistry; or if you earned less than B grades in H.S. algebra or chemistry

• Take CH1150/1151/1153 — B or better in H.S. Chemistry and Algebra CH1153 is optional, and recommended

CH1000 does not count toward your degree. Take it if you plan to take CH1150/51/53 and you are not well-prepared for University Chemistry. CH1000 is “free elective” credits.

Go to Student Services Center to switch your chemistry course, this week. Admin Building

or email schedule@mtu.edu

Chemistry advisors: Lois Blau, Chem-Sci room 206A
Denise Laux, Chem-Sci room 607D
Honors Physics

- Honors Physics I: PH1160 and PH1161
  Mechanics (for Physics majors)
- PH1160 and PH1161
- Fall semesters only  
  Lecture at 1:05pm MTWF
- Calculus I (or beyond)
- see Instructor: Dr. Weidman, Fisher 106

May replace: PH1100(lab) and PH2100
MA1160 or MA2160?
Make sure you’re in the right calculus for you

If you earned a score of 3 on AP Calculus Exam:

• You were registered in Calc II, MA2160.

• You may start in Calculus I. Consider seriously.

• To start in Calculus I instead of Calculus II (much safer)
  
  • Go to Student Services Center to switch your calculus course, this week. 8am – 5pm Admin Building, or email schedule@mtu.edu

First-year Math advisor: Ann Humes, Fisher 205B
Linear Algebra and Differential Equations

Prerequisite chain: Lin Alg → Diff Eq → Circuits II → EE3xxx

MA2321 and MA3521: Accelerated - ½ semester each
- taken sequentially in same semester.
- must pass MA2321 to continue in MA3521
- may be difficult resulting in lower grades
- Take minimum of 14 credits (or risk Financial Aid)

MA2320 and MA3520 Normal Pace - 1 semester each
- Takes two semesters; Same courses at normal pace
- If you are planning more than 8 semesters
- If calculus II was difficult
- If you are ‘ahead’ in math
- Increase chances of earning higher grades

Remember this
Pre-requisite Chain to graduation
With accelerated Linear Algebra & Diff Eq

Number of semesters on the chain:

MA1160/61 (7)
MA1032/1031 (8)
MA1030 (9)
Non-accelerated MA2320 & MA3520 (8)

Weekly appointment
Math Learning Center (MLC)

WEEKLY: Study 30-45 hrs, to stay on track! That’s 2-3 hrs per credit, outside of class time.
1. **12 credits Core:**

   UN1015  Composition (3)
   UN1025  Global Issues (3)  or 3000+ level language course
   One Critical & Creative Thinking course (3)
   One Social & Ethical Reasoning course (3)

   *It’s important to complete UN1015 and UN1025 in first year or else:*
   - low priority registration in 2nd year and beyond
   - unable to schedule upper level HASS/Gen Ed courses until they are both complete

2. **12 credits HASS electives as follows:**

   *At least 6 credits of HASS must be upper level (3000+)*
   - One course from Communication & Composition HASS list (3)
   - One course from Humanities & Fine Arts (HU/FA) HASS list (3)
   - One course from Social & Behavioral Science list (EC/PSY/SS) HASS list (3)
   - One course from any above HASS list or the restricted HASS list (3)

3. **3 units of co-curricular activities**

Schedule of Classes - Search for Gen. Ed. classes

Practice using the SEARCH feature on the SOC (Schedule of Classes)

**Registrar’s webpage:** Schedule of Classes (SOC)

- View Schedule of Classes or BanWeb for times the courses are offered
- You can view the various General Education requirements using the SOC
  
  - Go to SOC/BanWEB
    - Select all subjects (Control-A Keys) or one subject
  
  - Go to Attribute Type
    - Select General Attribute Type by clicking
  
  - Select Class Search

- Attribute Types Terminology (2015+ General Education)

<table>
<thead>
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<th>General Education</th>
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<tr>
<td>Critical and Creative Thinking</td>
<td>Critical/Creative Think’g CORE</td>
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<tr>
<td>Social Responsibility &amp; Ethical Reasoning</td>
<td>Soc Resp/Ethical Reason CORE</td>
</tr>
<tr>
<td>Communication/Composition</td>
<td>Communication or Composition</td>
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<tr>
<td>Humanities/Fine Arts</td>
<td>Humanities &amp; Fine Arts</td>
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<tr>
<td>Social &amp; Behavioral Science</td>
<td>Social &amp; Behavioral Science</td>
</tr>
</tbody>
</table>

- You can select several attributes at the same time by holding the control key and selecting any of the attributes above
Interested in Modern Language courses?

1. A 3000-4999 level language course may replace UN1025, Global Issues
   • may postpone if need lower course(s) level first
   • up to nine language credits may count in general education
     1 level 3000+(3cr)    1 HASS-HU/FA (3cr.)   1 HASS-any (3cr.)

2. Placement credits awarded for ‘B’ grade or higher, in your language placement course.

3. Language Minors: French, German, Spanish (18 – 21 credits)
   Language instructors:
   French – Maria Bergtrom mjbergst@
   German – Karin Schlenker kbschlen@
   Spanish - Leyre Alegre-Figuero lalegref@

4. Language minor advisor: Dr. Maria Bergstrom, Walker 316, mjbergst@mtu.edu

Language Placement questions: TODAY!

Language placement Advising & Placement Test - Walker 120 A
French, German 2:30 – 4 Spanish 4 - 5:30
Part of Term - Track A and Track B

Part of Term ‘1’ = full semester course  
  Sep 5 – Dec 22
Part of Term ‘A’ = Track A = 1st 7 weeks  
  Sep 5- Oct 20
Part of Term ‘B’ = Track B = 2nd 7 weeks  
  Oct 23 – Dec 15

• Many PE or co-curricular courses are ½ credit and offered in either Track A or Track B.

<table>
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<tr>
<th>CRN</th>
<th>Subj</th>
<th>Crse</th>
<th>Soc</th>
<th>Cmp</th>
<th>Cred</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Cap</th>
<th>Act</th>
<th>Rem</th>
<th>Instructor</th>
<th>Date (MM/DD)</th>
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<td>PE</td>
<td>0148</td>
<td>L01</td>
<td>1</td>
<td>0.500</td>
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<td>MW</td>
<td>01:35 pm – 02:25 pm</td>
<td>40</td>
<td>29</td>
<td>11</td>
<td>TBA</td>
<td>09/05-10/20</td>
</tr>
<tr>
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<td>17</td>
<td>TBA</td>
<td>10/23-12/15</td>
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<td>40</td>
<td>0</td>
<td>TBA</td>
<td>10/23-12/15</td>
</tr>
</tbody>
</table>

• Pay attention to the dates on the schedule of classes.
• Don’t forget to start attending a track B course the week of October 23rd.

EE1110, Essential Math – Track A    EE1111, Intro to ECE – Track B
Finalize your schedule

• Registration will be open Wednesday 8 am – Thursday at Noon

• 12 credits is minimum; 18 credits is the maximum

• Some changes may be made at your Online Resources Team Meeting Weds AM at 10 or 11
• UN1000 – ExSEL Program – Frameworks for Success
  • section can be switched if needed (go to Admin bldg.-Student Services)
  • cannot be dropped
  • See Jeanne Watts if you wish to join ExSEL

• UN1010 – Themed Community – Creating your Success
  • cannot be dropped or switched

UN Questions:  Ms. Jeanne Watts, 130 Admin  
exsel@mtu.edu  
487-3558

• HON1150 - Pavlis Honors College – Creating Your Path
Engineering Cohort Schedule

Go to the Student Services Center, Admin Bldg, if you NEED to change a cohort course.

Do not drop or change a cohort course !!!!!!!!!!

These courses are taken together for Fall semester:

MA1030 or MA1031 or MA1032
ENG1001 (if scheduled)
CH1000 (EE’s)

MA1160 or MA1161
ENG1101
CH1150
CH1151
PH1100 (if fits)

MA2160
ENG1101
CH1150
CH1151
PH1100 (if fits)

• To switch to the correct chemistry course for you, go to Student Services

• Spatial Visualization test: TODAY at 3pm or 4pm –
  Spatial Visualization course: ENG1002, one credit

• Students w/o ALEKS/AP/TR, or students who wish to place into a higher level math course, take the ALEKS math assessment:
  Wednesday Aug 30, 3–5 pm in Rekhi 215 or Thurs. Aug 31 7 pm.
Need more credits?

What classes could you add?

- CH1000 or CH1150/51/53 or a math/science elective
- CH1153 – 1 cr. recitation to help with CH1150/1151
- UN1025 or UN1015
- Critical and Creative Thinking Core course
- Social responsibility and Ethical Reasoning Core course
- HASS lower level elective course (*pay attention to which list*)
- EE1111 – Introduction to ECE, 1 credit
- PE xxxx 0.5 credit, Part of Term A and/or B

See Dr. Bergstrom in Walker 316 if you’d like help finding a gen ed course.
Too many credits?

15+

See Judy or Trever if you want less credits in your first semester.

What class could you postpone?

CH1000, CH1150/51/53, CS1121, or a HASS list course

Do not postpone chemistry if considering Biomedical Applications concentration (EE’s)

You might want a light semester to start with. (12 – 14)

It might be best to take less credits and earn higher grades.

Taking a high number of credits can lead to stressful loads and risking failure of a class. You won’t know your ideal credit load until you’ve completed a semester or two.

Do NOT to postpone UN1015 and UN1025. Take in first year.
**Course Drop Dates** check all at Registrar’s Web Site

**Last Day to Drop “Without a Grade” recorded:**
- Full Term Course – *Friday, September 22*
- Term A course – *Wednesday, September 13*
- Term B course – *Wednesday, November 1*

**Mid-term grades available after 5pm, Monday October 23.**
- UN = Unsatisfactory (less than C grade)
- SA = Satisfactory (C or higher)

**Last Day to Drop – grade of “W” shows on transcript**
- Full Term Course - *Friday, November 10 - WEEK 10*
- Term A course – *Friday October 6*
- Term B course - *Friday, November 24*

**Dean of Students: 906-487-2212 (special circumstances)**
First-year student permission to Drop/Add

After classes begin in week 1, use this form if you need to add or drop a course. Available in the Advising office – EERC 131 and online – Registrar’s Website.

<table>
<thead>
<tr>
<th>ID no: M_</th>
<th>Name</th>
<th>Last</th>
<th>First</th>
<th>Middle</th>
<th>Date</th>
</tr>
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</table>

**DROP**

<table>
<thead>
<tr>
<th>Subj</th>
<th>Crse #</th>
<th>Lec Sec #</th>
<th>Lec CRN</th>
<th>Rec Sec #</th>
<th>Rec CRN</th>
<th>Lab Sec #</th>
<th>Lab CRN</th>
<th>Instructor/Advisor signature and date (required after week 3)</th>
</tr>
</thead>
</table>

**ADD**

<table>
<thead>
<tr>
<th>Subj</th>
<th>Crse #</th>
<th>Lec Sec #</th>
<th>Lec CRN</th>
<th>Rec Sec #</th>
<th>Rec CRN</th>
<th>Lab Sec #</th>
<th>Lab CRN</th>
<th>Instructor/Advisor signature and date (required after week 1)</th>
</tr>
</thead>
</table>

**SECTION CHANGES**

<table>
<thead>
<tr>
<th>Subj</th>
<th>Crse #</th>
<th>Sec # Drop</th>
<th>Sec CRN Drop</th>
<th>Sec # Add</th>
<th>Sec CRN Add</th>
<th>Instructor signature and date (prepared from instructor of section being added after week 1)</th>
</tr>
</thead>
</table>

Advisor Signature | Date

Approved changes must be submitted to the Registrar’s Office on the same day as approval is granted.

Other necessary forms must also be submitted (e.g., program change approval, academic advisors, etc.)
Special Approval or Restriction
Waiver Form

Special Permission
Enterprise enrollment
Class Restriction
Pre-requisite waiver
Major Restriction

Bring **completed form** with appropriate signatures to the Student Services Center in the Admin Building.
Engineering Design Requirement
3 Options – choose one

1. Senior Design project – year long project in senior year sponsored by industry
   EE4901 + EE4910

2. Enterprise project work – 4 semesters at junior and senior levels
   ENT3950, ENT3960, ENT4950, ENT4960

3. EPS – European Project Semester
   EE3901 + EE4901 + EE4910 + ? credits
ECE Enterprises
Undergraduate Research and Development

Blue Marble Security—BM SE (L02)
Advisor: Dr. Glen Archer, EERC 629 gearcher@mtu.edu

Wireless Communication—WCE (L03)
Advisor: Mr. Kit Cischke, EERC 520 cmcischk@mtu.edu

Robotic Systems—RSE (L15)
Advisor: Dr. Jeremy Bos, EERC 623 jpbos@mtu.edu

First-year enterprise course number: ENT1960, 1 credit for Spring 2017. Take ENT1960 with Calc II.

To Join: Meet with enterprise advisor, use waiver form, register in course that pertains to semester and section number.
Concentrations (not required)

EE concentrations
- Biomedical Applications
- Environmental Applications
- Photonics
- Enterprise
- Electric Power Engineering

CpE concentration
- Enterprise

1. Get appropriate flowchart
2. See Judy or Trever, EERC 131 for questions
3. Complete Curriculum Add/Drop Form to add a concentration
4. Concentration is listed on the diploma
• Undergraduate Research

• Study Abroad – many countries
  200 Admin Building
  Tuesdays at 11am    Thursdays at 2pm
  Study Abroad Fair – Sept. 20, Fisher Hall 10am-2

• Career Center offers:  220 Admin Building
  • Career and interest explorations  MyPlan
  • Co-op experience – suggested after Circuits I or II
  • UN2525 Career Development class 1 cr.

• MBA in one year after BS – see MBA advisor early on

Career Fairs:
  Sept. 27
  Feb. 21

Industry Days:
  Check Career Services website
Student Organizations

• Join IEEE to be connected to the largest professional society in the world and have access to the Student Projects Lab, room 809

• Join SPIE to be more informed and involved in Photonics activities and research

• NSBE – National Society of Black Engineers

• SWE – Society of Women Engineers

• Eta Kappa Nu (HKN) – IEEE Honors Society - you may be invited to join in Sophomore, Junior or Senior year for earning a high cumulative GPA and are in the top 10, 25 or 33% of your class.
Accelerated Masters Program

- MS Electrical Engineering
- MS Computer Engineering
- Future: MS Cyber Security
- Apply after completion of junior year core
- Maintain minimum cumulative GPA of 3.25
- Double-count 3 to 6 undergraduate credits toward a masters in The ECE Department.

ECE Masters programs advisor: Dr. John Paakola, EERC 514
## More to Think About

### Degree Services website for program requirements:

**Minor Expo – Oct. 12\(^{th}\), 4-5:30pm, MUB**

- **Minor**
  - Remote Sensing, Nanotechnology, Mathematics, Data Acquisition and Industrial Control, Aerospace Engineering, Electronic Materials, Music, Art, Physics, Languages, etc...

- **Double major** (takes less than 32 credits to complete 2\(^{nd}\) major)
  - CpE and EE
  - CpE and CS

- **Second Bachelaureate Degree** (32 or more credits needed to complete 2\(^{nd}\) degree)
  - EE and Mechanical Engineering
  - Any two majors that takes 32 or more additional credits to complete.
You are responsible for your own

- Read & know your Course Syllabus.
- Go to all your lectures & labs and pay attention. Take notes.
  - root of most academic problems (you don’t want to go there)
- Read emails daily – especially from instructors, advisors, and the Dean of Students Office. Use Canvas messages.
- Make plenty of time for studying and homework.  30-45 hrs
  - Start homework early – DO NOT PROCRASTINATE !!
- Do your own work. Do not copy. Practice, practice, practice!
  - Be able to solve math problems & develop your own code.
  - Practice math problems until you can do them in your sleep.
- If you don’t understand something, ASK and get help right away.
  - Instructor office hours - Learning Centers - NOT from friends
- Use the Learning Centers – weekly appointments or walk-in hours.
  - Sign up early for Math/Chem Learning Center weekly coaching.
- If you think you’re in the wrong level of a course, see your instructor right away – especially for math courses.
- Freshmen year: Check Mid-Term grades online evenings of: fall- Oct 23 & spring- Mar 5
  - Satisfactory (S) or unsatisfactory (UN)
- If something happens to you, contact the Dean of Students 487-2212.
What are your priorities?

1. Class attendance
2. Homework
3. Review class material
4. Studying for exams/ quizzes
5. Learning Center

Success

Grades
job
ENTERPRISE
favorite sport

mountain biking
GPA:

snowboarding
Greek activities
gaming
R.A.
movies
friends
parties

Take the reigns; you are in control of your own success

IEEE NSBE SWE HKN SPIE
All 3 GPA’s must be at least 2.0 to remain in Good Academic Standing.

1. Cumulative GPA
2. Departmental GPA (min. 16 cr complete)
   - EE majors: uses EE courses
   - CpE majors: uses EE and CS courses
3. Term GPA (most recent semester GPA)

3.5+ ➔ Graduate with honors
3.0+ ➔ Get job interviews 😊
Below 3.0 ➔ May have difficulty finding co-ops/jobs
2.75+ ➔ Eligible for Study Abroad programs
Below 2.0 ➔ Probation 🙁

2 consecutive semesters on academic probation leads to suspension.

Midterm grades available online Monday, Oct 23\(^{rd}\) 5pm
Course Repeat Rules: (blog post)
1. Courses with CD or less may be repeated.
2. Most recent grade counts, even if lower than prior.
3. No more than three attempts per course.
4. Special permission is required for 3rd and final attempt.

Advice:
1. Do not skimp on a class you are repeating. Go to all your classes and re-do all the homework from the start.
2. Meet with your advisor if you’d like to raise your GPA and/or are considering repeating a course.
If something happens to you, such as a medical or family emergency and it causes you to miss classes, contact the Dean Of Students Office as soon as possible.

If you have a learning Disability and need accommodations, contact Christy Oslund in the Dean of Students Office.

Counseling Services

If you become overwhelmed, stressed out and stop going to classes or doing homework, we have counseling services to help students deal with stresses that interfere with college work and the enjoyment of life in general.
• Where are official degree audits/requirements? [Degree Services website]

• What tool will you use to track degree progress? [In Banweb: Online degree Audit report]

• If you repeat a course, which grade counts, the highest or the most recent? [Most recent (even if it’s lower)] Attempt limit [3]

• If you have a crisis that causes you to miss classes, who do you contact? [Dean of Students Office, 487-2212]

• Can you take any Humanities course for General Education? [No! Choose courses from HASS lists]

• Can you take a course if you failed its pre-req? [NO!]

• What is the minimum GPA needed to remain in Good Academic Standing? [Cumulative, Semester and Departmental w/16+ cr: 2.0]

• Which courses are used in Departmental GPA? [EExxx or EE & CS]

• What is minimum GPA to graduate with honors? [3.5]

• How do I verify that a course will count? [Online Degree Audit Report Before classes begin]
Include in your e-mails:

- Student ID Number “M-number” (or 1st 3 digits)
- Major
- First and Last Name

ASK your advisor, not your friends: EERC 131

Trever: tjhassel@mtu.edu
Judy: eceadvise@mtu.edu

To schedule an appointment,
Call 487-2550 or go to EERC 121 (Main Office)

Questions? See us after this or in
EERC 131 or e-mail one of us