4th Year Students in Mechanical Engineering

Welcome Back!

and

Happy New Year!
Some People in Mechanical & Mechatronics Engineering You Should Know

Professor Jan Huissoon
MME Department Chair
Professor David Weckman
Associate Chair Undergraduate Studies, ME
(E5-3107, me-ugchair@uwaterloo.ca, ext. 37200)
Welding & Joining Specialization Coordinator
Our New ME Academic Advisor!

Tanya Yoworski,  ME Academic Advisor
E5 – 3106,  ext. 33625  tyoworski@uwaterloo.ca
Communication is Important!

- Please review the Welcome Back Handout and the Information for **ME Current Students** web page for important deadlines. This is accessible from the Mechanical & Mechatronics Engineering home page at [http://www.me.uwaterloo.ca](http://www.me.uwaterloo.ca)

- **Student/Faculty Committee:**

  - Your class should elect:
    - one Class-Professor
    - 2 Student Class Representatives (co-chairs of the Committee)

  Please let Tanya Yoworski know by **Friday, January 8th**

  **First Student/Faculty Meeting is Thursday, January 14th**
  at 11:30 am in E5 - 3101
The Safety Lecture by your Class Professor is Tuesday Jan. 19th at 11:30 am in AL 113

The Safety Lecture is Compulsory

You will be required to sign a form acknowledging that you have read the Department of Mechanical Engineering & Mechatronics Engineering Lab. Safety Manual and have attended the Safety Lecture.
This is Your Last Chance to Satisfy All Mechanical Engineering Curriculum Requirements

Before you graduate at the end of this term, you must have:

- Passed all 32 required core courses
- Passed 5 CSE and 7 TE courses
- Passed some combination of 5 WatPD courses
  (See WatPD-Engineering web page)
- Cleared all failed courses
- Have CR for WHMIS & ELPE
- Have CR for 3 or 4 work term reports
- Have CR for 5 of 6 work terms
<table>
<thead>
<tr>
<th>CSE #1</th>
<th>MATH 117 Calculus 1</th>
<th>MATH 115 Algebra and Vector Geom.</th>
<th>PHYS 115 Mechanics</th>
<th>CH E 102 Chemistry for Engineers</th>
<th>ME 100 Commun’n &amp; Profess’ism</th>
<th>CSE #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>MATH 118 Calculus 2</td>
<td>GEN E 121 Digital Computation</td>
<td>PHYS 125 Physics for Engineers</td>
<td>ME 123 Elec. Eng. for Mech. Eng’s.</td>
<td>ME 215 Materials 1</td>
<td>M SCI 261 Managerial &amp; Eng. Econ’ics</td>
</tr>
<tr>
<td>1B</td>
<td>ME 201 Advanced Calculus</td>
<td>ME 230 Materials 2</td>
<td>ME 202 Statistics for Engineers</td>
<td>ME 269 Elec’mech Dev Power Proc’ing</td>
<td>ME 219 Deformable Solids 1</td>
<td></td>
</tr>
<tr>
<td>2A</td>
<td>ME 203 Ordinary Diff’l Equations</td>
<td>ME 212 Dynamics</td>
<td>ME 220 Deformable Solids 2</td>
<td>ME 262 Microproc’s &amp; Digital Logic</td>
<td>ME 250 Thermo-dynamics 1</td>
<td></td>
</tr>
<tr>
<td>3B</td>
<td>ME 481 Mech. Eng. Design Proj. 1</td>
<td>Technical Elective 1</td>
<td>Technical Elective 2</td>
<td>Technical Elective 3</td>
<td>CSE #4</td>
<td></td>
</tr>
</tbody>
</table>
5 CSE’s are Required

- At least 1 “List A” course (Impact)
- At least 1 “List B” course (Economics)*
- At least 2 “List C” courses (Humanities and Social Sciences)
- One additional CSE (List A, B, C or D)

* MSCI 261 is a “List B” CORE course
# Mechanical Engineering TE’s (7 Required)

<table>
<thead>
<tr>
<th>1A</th>
<th>1B</th>
<th>2A</th>
<th>2B</th>
<th>3A</th>
<th>3B</th>
<th>4A</th>
<th>4B</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 201 Advanced Calculus</td>
<td>ME 230 Materials 2</td>
<td>ME 202 Statistics for Engineers</td>
<td>ME 269 Elec’mech Dev Power Proc’ing</td>
<td>ME 219 Deformable Solids 1</td>
<td>CSE #2</td>
<td>ME 203 Ordinary Diff’l Equations</td>
<td>ME 212 Dynamics</td>
</tr>
</tbody>
</table>
# Mechanical Engineering Curriculum with the Welding & Joining Specialization

| 1A | Math 117 Calculus 1 | Math 115 Algebra and Vector Geom. | Phys 115 Mechanics | CH E 102 Chemistry for Engineers | ME 100 Commun’n & Profess’ism |
| 1B | Math 118 Calculus 2 | GEN E 121 Digital Computation | PHYS 125 Physics for Engineers | ME 123 Elec. Eng. for Mech. Eng’s. | ME 215 Materials 1 |
| 2A | ME 201 Advanced Calculus | ME 230 Materials 2 | ME 202 Statistics for Engineers | ME 269 Elec’mech Dev Power Proc’ing | ME 219 Deformable Solids 1 |
| 2B | ME 203 Ordinary Diff’l Equations | ME 212 Dynamics | ME 220 Deformable Solids 2 | ME 262 Microproc’s & Digital Logic | ME 250 Thermo-dynamics 1 |
| 3A | ME 303 Advanced Eng. Math | ME 354 Thermo-dynamics 2 | ME 351 Fluid Mechanics 1 | ME 321 Kinematics and Dynamics | ME 340 Manufacturing Processes |
| 4B | ME 482 Mech. Eng. Design Project 2 | **ME 526 Fatigue & Fracture** | ME 535 Welding Metallurgy | **ME 538 Weld. Design, Fab. & QC** | Technical Elective #7 or ME 547 |

CSE #2

M SCI 261 Managerial & Eng. Econ’ics

CSE #3

CSE #5
Number of TE’s Required

- A total of 7 TE’s are required.
- A minimum of 5 TE’s must be from the Mechanical Engineering course list (ME TE’s).
- Biomechanics and Mechatronics Option students must take at least 4 ME TE’s.
Be Careful!

- Some courses are not TE’s although they may appear to be TEs. For example, ME 401, MSCI 441 and GENE 412, GENE 452 are CSEs – are not TEs.

- It is YOUR responsibility to make sure you satisfy all degree requirements; i.e., correct no. of TE’s & CSE’s, transfer conditions, clearing failed courses by supplemental exams or retaking, etc.

- If you are not sure? Ask Tanya Yoworski!
Course Drop/Add Deadlines

- **Add**: Friday, January 15th
- **Drop**: Friday, January 22nd
- **Late Drop**: Jan. 23rd to March 18th – WD grade
- **Late Drop with Penalty**: starts March 19th
  - WF (withdraw/fail) grade shows
  - grade of 38% is included in average

- **CHECK YOUR COURSE LIST on QUEST!**
Final Exams

- Food or drinks (except water) are NOT allowed in midterm or final exams
- First day of exams is Friday, April 8\textsuperscript{th}
- Last day of exams is Saturday, April 23\textsuperscript{rd}
- Final Exam Emergency Day: See UW Home Page
- Remember, after this is when you can book:
  - plane tickets,
  - holidays,
  - anything else you like!
Some Examinations Regulations

- Examinations, test, or lectures are not permitted between the last day of lectures and the first day of exams.
- Final exams are not allowed during the formal lecture period.
- Major term tests (>25%) normally may not be held in the last five days of lectures.
There will be four (4) – 2.5 hour final examinations/day

Final Exam Scheduling Rules:

- No back-to-back exams.
- No last slot (evening) – first slot (next morning) exams.
- No more than two (2) exams in one day.
Missed Exams

- Little will be done to accommodate students who miss Midterm or Final Exams without a legitimate reason conveyed with documentation to the instructor and to Tanya Yoworski prior to the exam.

- A DNW (Did Not Write) course grade can lead to a RWE (Required to Withdraw from Engineering) decision.
Sickness or Unusual Difficulties

If you have a difficulty such as a serious illness, injury or a death in the family:

- make sure you inform the Undergraduate Office (Tanya Yoworski) immediately
- and be sure to obtain documentation right away (i.e., the UW Health Services Verification of Illness Form from a doctor).
Fourth-Year Study Room, E3-3111
(Upstairs above the Structures Lab, opposite the Wind Tunnel)

Main Door lock combination:
(see Tanya Yoworski)

1) Note: This study room will be shared with all 4th year Mechanical & Mechatronics students.

2) Please keep this room neat and tidy.

3) These are new computers with CES EduPack 2015 installed. Report all computer problems to our MME I.T. group at rt-mme-computing@rt.uwaterloo.ca
Mechanical & Mechatronics Engineering
4th year & MEng Computer Room, E2-2354

- There are 8 computers in E2-2354 for use by all 4th year ME & MTE students

Door Lock Code: (see Tanya Yoworski)

1) Please keep the back door closed & locked
2) Please keep this room neat and tidy.
3) Report all computer problems to our MME I.T. group at:
   rt-mme-computing@rt.uwaterloo.ca
Welcome to Your Last Term of Mechanical Engineering! 😊

Questions?