



1B MECHATRONICS ENGINEERING ACADEMIC SESSION

MME Department - Spring 2020



Agenda

- People in the MME department
- Important websites and specific things to note in MME
- Overview of what is ahead
- Mechatronics Engineering Degree Requirements
- Course Enrollment and Quest information
- Support for personal or extenuating circumstances
- Exchange & Student team opportunities

People in Mechanical and Mechatronics



Sam
Vandekerckhove
Student Wellness
Co-ordinator



Michael
Collins
Professor,
Associate
Chair, UG
studies



Megan Bester
Interim Mechanical UG
Advisor/Coordinator



Andrew
Kennings
Professor,
Director
Mechatronics



Liz Skibicki
Mechatronics UG
Advisor/Coordinator

Important websites and information

- Review the information for **current Mechatronics students** web page for important information and deadlines, lecture schedules, midterm & final exams and work report guidelines

<https://uwaterloo.ca/mechanical-mechatronics-engineering/current-students-mechatronics-engineering/academic-issues>

- **Student/Faculty Committee**

Each class elects two student representatives

and to Meet generally every 2nd Thursday for lunch to discuss classes, any issues

resolve problems throughout the term

Important websites and information

- Safety Module

Safety module is mandatory and you will be required to do three quizzes along with signing off as an acknowledgment at the end. Failure to do this will result in not being allowed to participate in lab components.

- Mechatronics Engineering Curriculum

Meets Canadian Engineering Accreditation Board (CEAB) requirements

Graduation from a CEAB certified Engineering program satisfies the academic requirements for Licensing as a Professional Engineering in Ontario

- Accommodations with midterms & finals

If you have a coop interview or an academic interest (eg. team) during midterms or finals, these are not grounds for being accommodated.

Explanation of Mechatronics Offerings

Complementary Studies Electives (CSEs)

- 1 - List A (Impact)
- 1 - List B (Economics)*
- 2 - List C (Humanities & Social Sciences)
- 1 - List A,B,C or D**

Technical Electives (TEs)

- Can be MTE, ME, ECE, CS, MSCI, SYDE
- MTE Theme Areas:**
- *Industrial Process Automation
- *Systems, Sensing & Control
- *Biomedical Applications
- *Electrical & Mechanical Hardware Systems Design
- *Intelligent Software Systems

Options & Minors

- Must have a cumulative average of 75% or higher to add an option (AI is 80% or more)
- Must be added between 2B and by end of 3B
- May have to overload in a term or take a course while on coop
- Most common are:**
- Biomechanics option
- Management Sciences option
- AI option
- Software option

Work reports (WKRPTs) & Professional Development (PD)

- 3 required - WKRPT 100, 200, 300
- 5 required - PD 20 & 21 mandatory
- 3 elective topics

Notes:

- * MSCI 261 in 3B is a "List B" core course
- ** 1 language skills course may be a "List D" but approval is required

1A	CHE 102	GENE 121	MATH 115	MATH 116	MTE 100			
1B	MATH 118	MTE 100B	MTE 111	MTE 119	MTE 120	MTE 140		
2A	MTE 200A	MTE 201	MTE 202	MTE 219	MTE 262	SYDE 182	CSE #1	
2B	MTE 200B	MTE 203	MTE 204	MTE 220	MTE 241	SYDE 252	WKRPT 100	
3A	ME 321	MTE 300A	MTE 309	MTE 320	MTE 325	SYDE 351	WKRPT 200	
3B	ME 351	MSCI 261 (list B)	MTE 300B	MTE 322	MTE 360	MTE 380	WKRPT 300	CSE #2
4A	ECE 484	MTE 400A	MTE 481	TE #1	TE #2	CSE #3		
4B	MTE 400B	MTE 482	TE #3	TE #4	TE #5	CSE #4		

Course Enrollment and Quest

Fall 2020 – 2A term

- 1st CSE to choose
- Course selection week will occur May 21 to June 1
- You will be sent an email when to log into Quest to do this
- Liz will work with the Registrar's office to get your core courses on Quest every term
- If you have a service indicator on your record, you will not get pre-enrolled



Course Enrollment and Quest

- If you miss course selection week, you can send an email to Liz and she will help you still get pre-enrolled
- You also get another opportunity to enroll during drop/add time where you get an appointment time in Quest, along with real enrollment July 20 & 21 up to term starting
- <https://uwaterloo.ca/quest/help/students/how-do-i/select-courses-future-term>



Personal Struggles or Extenuating Circumstances

- **Seek help!** – you are not alone. Speak to your instructors, Counselling Services, your doctor, Academic Advisor, Student Wellness Co-ordinator, Director or Associate Chair of UG studies – even your classmates (buddy system).
- Personal issues or extenuating circumstances can interfere with your studies (eg. illness, hospitalization, family situations)
- Counselling Services in Needles Hall or E2 - <https://uwaterloo.ca/campus-wellness/counselling-services/individual-appointments> (offer individual appointments, group sessions, workshops)
- Campus Wellness - <https://uwaterloo.ca/campus-wellness/urgent-help-and-emergency-contacts>
- AccessAbility Services in Needles Hall - <https://uwaterloo.ca/accessability-services/> (have drop-in appointments, workshops, peer mentoring)

Documentation for Personal Struggles or Extenuating Circumstances

- **Extremely important!**
- If you have personal issues or extenuating circumstances during the term, make sure you connect with the Undergrad office and speak to Liz or Sam right away
- Be sure to obtain supporting documentation (eg. letters from counsellors or doctors)
- If you are ill for a midterm or final exam, you are not excused unless you bring in a “Verification of illness” form from Health Services within 48 hrs outlining you are “severely” incapacitated. Your instructor and Liz should be contacted immediately so you do not get a “DNW” (did not write).

Other opportunities in Engineering

International Exchange

- You may be interested in doing a 4 or 8 month exchange experience at other Universities around the globe
- MTE students generally do this in 3rd yr
- You must be in good standing academically with $> 80\%$ cumulative GPA
- Takes about a year to pre-plan and a talk will be held with Cindy Howe in your 2 yr

Some Student Teams in MME

- UW Alternate Fuels Team (UWAFT)
- Waterloo Baja SAE Team
- UW Clean Snowmobile Team
- WATonomous
- UW Robotics Team
- Waterloo Rocketry Team
- Waterloo Mars Rover Team
- <https://uwaterloo.ca/mechanical-mechatronics-engineering/student-teams>



QUESTIONS?

GOOD LUCK ON THE REST OF YOUR TERM AND SEE YOU IN 2A!