Mechanical Engineering Program Timetables
Traditional, Co-op Plan I, Co-op Plan II

Last Updated: June 26, 2012

NOTE: Students in the Biomedical Engineering option (Co-op Plan III) program should consult the document BME Program Timetables.

Please study the following material carefully. Program requirements for Mechanical Engineering are described in the Calendar (see §84.3 and §84.4). For timetabling purposes, courses in the program fall into three categories: **Fixed**, **Group**, and **Elective**. The following sections describe the courses in each category.

For students in Traditional, Co-op Plan I, and Co-op Plan II programs, a timetable is provided below for each academic term in the program (terms 3 through 8) to show you when various courses are offered. If you are following a normal program, these timetables should lead to a conflict-free schedule (with core courses at least).

As always, if you have any questions or concerns about your program or registration, please see one of the undergraduate advisors.

1. Fixed Courses

A number of courses in the program are offered only in specific terms: Fall, Winter, or Summer (Co-op II stream only). These fixed courses occur in academic terms 3, 4, 7, and 8 in the nominal course sequence and only in the terms shown in Table 1. Note the placement of technical electives in terms 7 and 8 in order to maintain a balanced load in those terms.

TABLE 1: Mechanical Engineering FIXED COURSES

	2nd Year (Terms 3 & 4)	**3rd Year (Terms 5 & 6)**	**4th Year (Terms 7 & 8)**
Fall Term	CIV E 270 MATH 209 MEC E 230	- none -	Tech Elective 1 Tech Elective 2
Winter Term	ECE 209* MATH 201* MAT E 202* STAT 235*	- none -	ENGG 400 Tech Elective 3 CH E 448 **or** ECE 362 **or** MEC E 420

* Term 4 courses are taken in Spring/Summer by Co-op Pattern II.

2. Group Courses

In each year of the program, MEC E courses (and some service courses) have been placed in either Group A or Group B. These groups are numbered 2A, 2B, 3A, 3B, 4A, and 4B. Students must complete all courses in all groups as part of their program. The Group A and B courses have been scheduled to work around the fixed courses listed above.

In each program year, students should take the Group A courses in one term (Fall or Winter), and the Group B courses in the opposite term (Winter or Fall). It is strongly recommended that students maintain the course groupings in order to minimize timetable conflicts since A and B course groups are scheduled in the same time slots in a given term.

The A and B group courses are shown in Table 2. See the tables starting on the following page for scheduled

class times in each term.

TABLE 2: Mechanical Engineering GROUP COURSES

	2nd Year (Terms 3 & 4)	**3rd Year (Terms 5 & 6)**	**4th Year (Terms 7 & 8)**
Group A	MEC E 200 MEC E 250 CH E 243	MATH 300 MEC E 300 MEC E 301 MEC E 330 MEC E 370 MEC E 380	MEC E 430 or 480 (See note 5) MEC E 463 Comp Studies Elective MEC E 539/563/468 or ENG M 541 (See notes 6 & 7)
Group B	MEC E 260 MEC E 265	ENG M 310 or 401 MEC E 340 MEC E 360 MEC E 362 MEC E 390 English Elective	MEC E 403 MEC E 451 MEC E 460 ITS Elective

Notes:

1. Co-op Plan I students must take Group 2A in the Fall term and Group 2B in Winter term.

2. Co-op Plan II students must take Group 2B in the Fall term and Group 2A in the following Spring/Summer term.

3. Co-op Plan II students must take Group 3A in term 5 and Group 3B in term 6.

4. Regular students will be split (via course enrollment limits) equally between A and B groups.

5. Students in 4th year who want to take MEC E 430 should take Group 4A in Fall and 4B in Winter. Students who want MEC E 480 take Group 4B in Fall and 4A in Winter.

3. Electives

See the document Mechanical Engineering Electives. One technical elective must be chosen from MEC E 468, 539, 563, or ENG M 541.

4. Program Timetables

The following pages indicate the schedules for Group A and B courses in each term of the program. Where more than one course section may be available, lecture sections are indicated; if only one section is available, no section number is indicated.

The timetables also show the fixed courses that should be taken in that term in order to follow the normal program sequence. Do not forget to register in the fixed courses!

2nd Year - Term 3 (Fall)

Fixed courses (must be taken by all students in MEC E program):		
CIV E 270 (3-0-3)	MATH 209 (3-0-1)	MEC E 230 (3-1-0)

Co-op Plan I students must take **Group 2A** in Fall term and **Group 2B** in Winter term.
Co-op Plan II students must take **Group 2B** in Fall term and **Group 2A** in the following Spring/Summer term.

	Monday		Tuesday		Wednesday		Thursday		Friday	
	2A	2B	2A	2B	2A	2B	2A	2B	2A	2B
8:00	MEC E 250 LEC A1	MEC E 260 LEC	MEC E 230 Lec A1		MEC E 250 LEC A1 ENGG 299 A1	MEC E 260 LEC	MEC E 230 Lec A1		MEC E 250 LEC A1	
9:00										
10:00	MEC E 200 LEC	MEC E 265 LEC			MEC E 200 SEM	MEC E 265 LEC	CH E 243 SEM E5		MEC E 200 SEM	
11:00			CH E 243 LEC A1				CH E 243 LEC A1			
12:00										
			CH E 243 LEC A2 CHE 243 SEM E3				CH E 243 LEC A2	ENGG 299 A2		
1:00	MEC E 250 LEC A2 & A3				MEC E 250 LEC A2 & A3				MEC E 250 LEC A2 & A3	
2:00	MEC E 250 SEM E1	MEC E 260 LAB		MEC E 265 LAB (1)	MEC E 250 SEM F3	MEC E 265 LAB (2)		MEC E 265 LAB (3)	MEC E 250 SEM E3	
3:00					CH E 243 SEM E4					
4:00	CH E 243 SEM E1									
5:00	CH E 243 SEM E2									

Notes:
1. Group 2A: pick any one of MEC E 250 LEC A1, A2, or A3. Enrollment in Seminar E1, E2, or E3 is automatic.
2. Group 2A: pick either section for CH E 243 (A1 or A2) and any seminar (E1 through E5).

2nd Year - Term 4 (Winter)

Fixed courses (must be taken by all students in MEC E program):			
ECE 209 (3-0-3/2)	MATH 201 (3-0-1)*	MAT E 202 (3-0-3/2)	STAT 235 (3-0-2)

*For MATH 201, engineering students must register in sections designated "EXX" only (e.g.: EA1).
Co-op Plan I students must take **Group 2A** in Fall term and **Group 2B** in Winter term.
Co-op Plan II students must take **Group 2B** in Fall term and **Group 2A** in the following **Spring/Summer** term—do not use this schedule to plan your courses!.

	Monday		Tuesday		Wednesday		Thursday		Friday	
	2A	2B	2A	2B	2A	2B	2A	2B	2A	2B
8:00	MEC E 250 LEC B1	MEC E 260 LEC	CH E 243 LEC B2		MEC E 250 LEC B1	MEC E 260 LEC	CH E 243 LEC B2		MEC E 250 LEC B1	
9:00	MEC E 250 LEC B2				MEC E 250 LEC B2				MEC E 250 LEC B2	
10:00	CH E 243 SEM J2		CH E 243 SEM J4							
11:00										
12:00										
			MEC E 200				MEC E 200			
1:00				MEC E 265				MEC E 265		
2:00		MEC E 260 LAB		MEC E 265 LAB (1)		MEC E 265 LAB (2)		MEC E 265 LAB (3)		
3:00	CH E 243 LEC B1				CH E 243 LEC B1				CH E 243 LEC B1	
4:00	CH E 243 SEM J3		MEC E 250 SEM J1 & J2							

Notes:
1. Group 2A: pick any one of MEC E 250 LEC A1, A2, or A3. Enrollment in Seminar F1, F2, or F3 is automatic.
2. Group 2A: pick either section of CH E 243 (B1 or B2) and any seminar (J1 through J4).

2nd Year - Term 4 (Summer, Co-op II ONLY)

Co-op Plan II students must take the appropriate fixed courses plus Group 2B in the previous Fall term. This leaves the following for the Spring/Summer term:

CHE 243 (3-1-0)	MEC E 200 (1-2-0)
ECE 209 (3-0-3/2)	MEC E 250 (3-1-0)
MATH 201 (3-0-1)	MEC E 260 (2-0-3)
MAT E 202 (3-0-3/2)	STAT 235 (3-0-2)

Only one section of each of these courses is offered. The timetable (starting summer 2006) will look as follows. Note that registration in these Summer term courses opens roughly mid-February immediately preceding the summer term.

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00					
9:00	MATH 201		MATH 201		MATH 201
		MEC E 200		MEC E 200	
10:00	MEC E 250		MEC E 250		MEC E 250
11:00	STAT 235	MAT E 202	STAT 235	MAT E 202	STAT 235
12:00					
		CH E 243		CH E 243	
1:00	ECE 209		ECE 209		ECE 209
2:00	ECE 209 LAB	MAT E 202 LAB	STAT 235 LAB	MEC E 250 SEM	MATH 201 SEM
3:00					
4:00					

3rd Year - Terms 5 & 6 (Fall)

Students in the BME option should consult the document BME Program Timetables.

Group 3A: add MATH 300 (Co-op Plan II must take this in Term 5)
Group 3B: add ENG M 310 or 401 and English Elective (Co-op Plan II must take this in Term 6)

	Monday		Tuesday		Wednesday		Thursday		Friday	
	3A	3B	3A	3B	3A	3B	3A	3B	3A	3B
8:00			MEC E 330	MEC E 390			MEC E 330	MEC E 390		
9:00	MEC E 370				MEC E 370				MEC E 370	
			MEC E 380	MEC E 362			MEC E 380	MEC E 362		
10:00	MEC E 300	MEC E 360			MEC E 300	MEC E 360			MEC E 300	MEC E 360
11:00	MEC E 330 SEM D1 MEC E 370 SEM E1	MEC E 340			MEC E 330 SEM D2 MEC E 370 SEM E2	MEC E 340			MEC E 380 SEM	MEC E 340
12:00	MEC E 301				MEC E 300 SEM					
1:00		MEC E 340 LAB (1) MEC E 390 LAB (1)				MEC E 340 LAB (2) MEC E 390 LAB (2)				
2:00	MEC E 301 LAB (1)		MEC E 301 LAB (2)	MEC E 360 LAB (1)	MEC E 301 LAB (3)		MEC E 301 LAB (4)	MEC E 360 LAB (2)	MEC E 301 LAB (5)	
3:00										
				MEC E 362 LAB (1)				MEC E 362 LAB (2)		
4:00										
5:00								MEC E 390 LAB (3 & 4)		

3rd Year - Terms 5 & 6 (Winter)

Group 3A: add MATH 300
Group 3B: add ENG M 310 or 401, English Elective

	Monday		Tuesday		Wednesday		Thursday		Friday	
	3A	3B	3A	3B	3A	3B	3A	3B	3A	3B
8:00			MEC E 330	MEC E 390			MEC E 330	MEC E 390		
9:00	MEC E 330 SEM H1 MEC E 370 SEM J1	MEC E 362	MEC E 380	MEC E 360	MEC E 330 SEM H2 MEC E 370 SEM J2	MEC E 362	MEC E 380	MEC E 360	MEC E 380 SEM	MEC E 362
10:00	MEC E 300	MEC E 340 LAB (1) MEC E 390 LAB (1)			MEC E 300	MEC E 340 LAB (2) MEC E 390 LAB (2)			MEC E 300	MEC E 340 LAB (3) MEC E 390 LAB (3)
11:00										
12:00	MEC E 301	MEC E 340			MEC E 300	MEC E 340				MEC E 340
1:00	MEC E 370				MEC E 370				MEC E 370	
2:00	MEC E 301 LAB (1)		MEC E 301 LAB (2)	MEC E 360 LAB (1)	MEC E 301 LAB (3)		MEC E 301 LAB (4)	MEC E 360 LAB (2)		
3:00										
4:00				MEC E 362 LAB (1)				MEC E 362 LAB (2)		

4th Year - Term 7 (Fall)

Fixed courses (must be taken in this term by all students in MEC E program):	
Tech Elective 1 (3-0-0)	Tech Elective 2 (3-0-0)

Students who want to take MEC E 430 should take **Group A** in Fall and **Group B** in Winter.
Students who want to take MEC E 480 should take **Group B** in Fall and **Group A** in Winter.

Group 4A: add ITS Elective (3-0-0), Comp Studies Elective 2 (3-0-0)
Group 4B: add MEC E 563 or 468

	Monday		Tuesday		Wednesday		Thursday		Friday	
	4A	4B	4A	4B	4A	4B	4A	4B	4A	4B
8:00										
9:00		MEC E 460				MEC E 403				MEC E 460
			MEC E 463	MEC E 451			MEC E 463	MEC E 451		
10:00										
11:00	MEC E 430				MEC E 430				MEC E 430	
12:00		MEC E 451 SEM (1)				MEC E 451 SEM (2)				
1:00										
2:00		MEC E 403 LAB (1)	MEC E 463 LAB (1)	MEC E 403 LAB (2)		MEC E 403 LAB (3)	MEC E 463 LAB (2)	MEC E 403 LAB (4)		MEC E 403 LAB (5)
3:00										
4:00										

4th Year - Term 8 (Winter)

Fixed courses (must be taken in this term by all students in MEC E program):		
ENGG 400 (1-0-0)	CH E 448 (3-1-3/3) **or** ECE 362 (3-0-3/2) **or** MEC E 420 (3-0-3/2)	Tech Elective 3 (3-0-0)

Students who want to take MEC E 430 should take **Group A** in Fall and **Group B** in Winter.
Students who want to take MEC E 480 should take **Group B** in Fall and **Group A** in Winter.

Group 4A: add ITS Elective (3-0-0), Comp Studies Elective 2 (3-0-0)
Group 4B: add MEC E 539 or ENG M 541

	Monday		Tuesday		Wednesday		Thursday		Friday	
	4A	4B	4A	4B	4A	4B	4A	4B	4A	4B
8:00										
9:00		MEC E 403				MEC E 460				MEC E 460
			CH E 448 **or** ECE 362 **or** MEC E 420				CH E 448 **or** ECE 362 **or** MEC E 420			
10:00										
11:00	MEC E 480			MEC E 451 LAB (1)	MEC E 480		ENGG 400 (1)		MEC E 480	
12:00										
				MEC E 451 LAB (2)			ENGG 400 (2)			
1:00	MEC E 463	MEC E 451			MEC E 463	MEC E 451			MEC E 463	MEC E 451
2:00	MEC E 463 LAB (1)	ECE 362 LAB (1) MEC E 420 LAB (1) MEC E 403 LAB (1)	CH E 448 LAB (1) MEC E 420 LAB (2)	MEC E 403 LAB (2)	CH E 448 LAB (2) MEC E 420 LAB (3)	MEC E 403 LAB (3)	CH E 448 LAB (3) MEC E 420 LAB (4)	MEC E 403 LAB (4)	CH E 448 LAB (4) MEC E 463 LAB (2)	MEC E 403 LAB (5)
3:00										
4:00										

Note: Take either section of ENGG 400.