Mechatronics Engineering in Memorial University of Newfoundland

Mechanical and Mechatronics Engineering courses are identified by a four-digit numbering system, the first two digits signifying the following:

The first digit denotes the academic term during which the course is normally offered.

The second digit denotes the primary areas of study, namely:

| 1: Materials Science |
| --- |
| 2: Mechatronics |
| 3: Dynamics |
| 4: Thermal Science |
| 5: Fluid Mechanics |
| 6: Solid Mechanics |
| 7: Design/Project courses |
| 8: Other regular courses |
| 9: Special Topics |

Non-departmental Engineering courses are designated by ENGI.

Mechanical and Mechatronics Engineering courses are designated by ME.

\*\*Engineering One Term\*\* -

- Required Courses:

1. Chemistry 1050 or 1200

2. 3 credit hours in English at the 1000 level or any Critical Reading and Writing course

3. Mathematics 1000, 1001, 2050

4. Physics 1050, 1051

5. ENGI 1010, 1020, 1030, 1040

- Elective Courses:

- Students who are expecting to successfully complete the Engineering One requirements by the end of the Winter semester may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W is expected to be successfully completed during the Fall semester. All other students are expected to successfully complete ENGI 200W in the Winter semester of Engineering One.

- In addition to meeting the requirements outlined below, a student must successfully complete four Complementary Studies courses as described under Description of Program, Complementary Studies.

\*\*Fall - Academic Term 3\*\* -

- Required Courses:

1. ECE 3300, 3400

2. ENGI 3101, 3424

3. ME 3102, 3301

\*\*Winter\*\* -

- Required Courses:

1. ENGI 001W or 002W

\*\*Spring - Academic Term 4\*\* -

- Required Courses:

1. ECE 4300, 4510

2. ENGI 4430

3. ME 4302, 4601

\*\*Fall\*\* -

- Required Courses:

1. ENGI 001W or 002W or 003W

\*\*Winter - Academic Term 5\*\* -

- Required Courses:

1. CIV 6470

2. ECE 5300, 5610

3. ENGI 4421

4. ME 5602

\*\*Spring\*\* -

- Required Courses:

1. ENGI 002W or 003W or 004W

\*\*Fall - Academic Term 6\*\* -

- Required Courses:

1. ECE 6810

2. ME 6202, 6303, 6701, 6702

\*\*Winter\*\* -

- Required Courses:

1. ENGI 003W or 004W or 005W (optional)

\*\*Spring - Academic Term 7\*\* -

- Required Courses:

1. ME 4501, 7205, 7705

- Elective Courses:

- 6 credit hours from ME 7204, 7210, 7220, 7230, 7603, 7703, ECE 7200, 7410, Computer Science 4766, or other courses as specified by the Head of the Department of Mechanical and Mechatronics Engineering.

\*\*Fall\*\* -

- Required Courses:

1. ENGI 004W or 005W (optional) or 006W (optional)

\*\*Winter - Academic Term 8\*\* -

- Required Courses:

1. ENGI 8152

2. ME 8706

- Elective Courses:

- 9 credit hours from ME 8304, 8305, ECE 5500, 8210, 8410, 8610, 8630, ONAE 8055, Computer Science 6915, or other courses as specified by the Head of the Department of Mechanical and Mechatronics Engineering.