

Queen's University – Faculty of Engineering and Applied Science

Incoming Exchange Student Course Selection Considerations

The Queen's University Faculty of Engineering and Applied Science offers degree programs in ten disciplines. Students find specific courses information at the Faculty of Engineering and Applied Science Calendar, which lists all courses offered in the last five years (<http://calendar.engineering.queensu.ca/>)

Many of our core courses are only open for general enrollment after our undergraduate students have completed their enrollment selections. Project courses are often problematic for exchange students and should only be considered if the student is extremely proficient at English for report writing and presentation requirements.

Below you will find some very specific recommendations regarding some of our more popular courses.

APSC courses

APSC 100 level courses

First year courses are open, dependent on enrollment numbers. For the past several years, we have had full enrollment capacity in these courses, therefore they generally are not viable option for exchange students.

APSC 200/221/293

APSC 221 is open to exchange students who have a standard 1st year math course and English Proficiency.

APSC 200 and APSC 293 must be taken together (due to integrated delivery and assignments). Application to the Course Administrator Gillian Woodruff gillian.woodruff@queensu.ca; please first request a detailed list of application requirements. Requirements will include e.g. summary of academic background, along with a description of team based design and technical writing skills. Students must provide the syllabus for course(s) that model the communication, design and team based work of APSC 100. Applications must be received one month before course begins.

APSC 381

Enrollment in this course will only be considered after all 3rd year Queen's students have completed enrollment, as this course is a pre-requisite for APSC 480. Application to the Course Instructor, Professor David Strong strongd@queensu.ca and Administrator, Myriam Beaulne myriam.beaulne@queensu.ca must include a letter of request, transcript and syllabus of course(s) similar to learning objectives from APSC 200/293. Applications must be received at least one month prior to start of course. Strong English verbal and written skills will be required for this course.

APSC 480

Enrollment in this course will only be considered if space is available. Please note: this is a full year course and requires students to attend BOTH semesters. Application to the Course Instructor, Professor David Strong strongd@queensu.ca must include a letter of request and transcript, supporting proof of a strong academic and design background. Applications must be received at least one month prior to start of course. Strong English verbal and written skills will be required for this course.

CIVL courses

Exchange students are not eligible to take either CIVL 200, CIVL 300, CIVL 360, CIVL 400 or CIVL 460

CHEE/ENCH courses

All courses are open to exchange students, dependent upon their academic background. Queen's enrollment may have priority, but if there is room in the class and students are eligible, they are welcome to attend.

ELEC and CMPE Courses

Enrollment of exchange students in the following 2nd year ELEC courses will only be considered if space is available:

ELEC 221, ELEC 271, ELEC 278, ELEC 252, ELEC 273, ELEC 274, ELEC 280, ELEC 299

Unavailable to Exchange Students:

ELEC 390 - this course prepares the student for ELEC49x, the 4th-year capstone design project course

ELEC 490/ ELEC 498 – final 4th year capstone design project course

ELEC 491/ ELEC 492 – 4+1 program project courses

Subject to Department approval:

ELEC 497 – The student registered in this course works on a research project under the supervision of ECE faculty member. The project is designed for completion in one session, with a project proposal describing the research submitted at the beginning, and a major report and presentation of the work at the end of the session.

ELEC 421, 431, 443, 444, 448, 474, 486, 483 – the department has limited lab components to accommodate a larger number of students in these courses. Enrollment into these courses will be considered only with the course instructor's approval.

ENPH courses

The following courses are NOT available to exchange students:

ENPH 455, ENPH 456, ENPH 457

The capstone thesis project courses are not available to exchange students as we don't have enough supervisors to offer one-on-one supervision to students from other universities.

GEOE courses

All courses are open to exchange students, dependent upon their academic background. Queen's enrollment may have priority, but if there is room in the class and students are eligible, they are welcome to attend.

MECH courses

The courses with the MECH prefix that are typically not suitable for most exchange student's follow.
(Note that some courses are core to our program, others are technical electives, as noted):

MECH 213 – Not available due to resources and machine shop space, and this course is core to all of our 2nd year enrolled MECH students.

MECH 230 – Only available if the 2nd year enrolment allows as this course is core to all of our 2nd year enrolled students along with that of other programs in engineering.

MECH 270 – Lack of laboratory resources, and this course is core to all of our 2nd year enrolled students.

MECH 323 – Lack of project resources, and this course is core to all of our 3rd year enrolled students.

MECH 361 – Not a suitable course as it is only available to Queen's students who are actively involved and participating in one of our student teams, i.e. Queen's Formula, Mini Baja, etc.

MECH 396 – Only available if students take MECH 370 at the same time as a co-requisite.

MECH 397 – Only available if students take MECH 371 at the same time as a co-requisite.

MECH 452 – Students must email and receive permission of the course instructor, as it is up to the instructor as to whether they are put into the course or not. Important to note that enrolment is very limited.

MECH 460 – Lack of project resources meaning this is typically not a suitable course for exchange students. This is the final year project course for all of our 4th year MECH students.

MECH 462 – Typically not a suitable course as it requires the pre-requisite of a course typically not available, MECH 460 (above).

MECH 463 – This is actually not a course. This is solely a mark/completion holder for summer research students visiting the department sponsored by an MME faculty member in collaboration with their homeschool research supervisor. Typically not available to exchange students.

MECH 464 – Typically not a suitable course. It is the co-requisite course that must be taken with a course not available, MECH 460 (above).

MECH 465 – Students must email and receive permission from the course instructor. It is up to the instructor as to whether they are put into the course, or not, as it is by application.

Other Important Factors to Note:

- Students must ensure they use the up-to-date course listings from the new academic course calendar for the year of their exchange. Course offerings vary from year to year.

- Students must ensure they have the necessary pre-requisite background material previously covered to be successful in the Queen's course(s) they are registered or plan to take. (The best way to do this is to briefly meet with the course instructor on arrival to be sure. Note that students have the first two weeks of term to add/change their courses).
- When viewing courses in the academic course calendar it is important to understand the details in the listing:

MECH 452 Mechatronics Engineering F 2-2.5-.5 5 This course is offered in the Fall term only, W means Winter term only, FW means Fall and Winter and F/W means Fall or Winter

PREREQUISITES: ELEC 252 or ELEC 310 or ENPH 333 or ENPH 334, and MECH 350 or MTHE 332, and permission of the instructor (the instructor should typically be met with/emailed prior to course registration, or a Pre-req/Co-req waiver signed within the first two weeks of the term. Forms are to be submitted to Jacquie Brown for processing).

~COURSE NOT OFFERED IN 2015-2016~ (Not available this academic year).

MINE courses

Most course are open to Exchange students, if they have the necessary pre-requisite knowledge. It is often best to speak directly to the instructor to obtain final approval.

The courses with the MINE prefix that are not suitable for most exchange students are:

MINE 445 – Not a suitable course as it is the final-year project course for all final year mine-mine students and most exchange students will not have the necessary design software experience to complete this course.

MINE 471 – Not a suitable course as it is the final-year project course for all final year mine-mech students and most exchange students will not have the necessary mechanical engineering background to complete this course.

MINE 448 – Not a suitable course as it is the final-year project course for all final year mine-mine students as few exchange students will have all the pre-requisites.

MTHE courses

Most course are open to Exchange students, if there is room in the course and they have the necessary pre-requisite knowledge. It is often best to speak directly to the instructor to obtain final approval. Exchange students are not eligible to take either MTHE 493 or 494