

Approved outside TC courses

**0 - 3 credits from courses outside of the Department of Mining and Materials Engineering, subject to departmental approval and approval of course instructor/host department.**

BIEN 510	Engineered Nanomaterials for Biomedical Applications	3	P - BIEN 200, CHEM 212, and BIOL 112, or permission of instructor
BIEN 530	Imaging and Bioanalytical Instrumentation	3	P - Permission of instructor
BMDE 504	Biomaterials and Bioperformance	3	Graduate and final-year undergraduate students from physical, biological and medical science, and engineering.
BMDE 508	Introduction to Micro and Nano-Bioengineering	3	P - Permission of instructor
CHEE 541	Electrochemical Engineering	3	P - CHEE 310 or permission of instructor.
CHEE 584	Polymer Processing	3	C - CHEE 315 or MIME 356 or equivalent. Restriction: Not open to students who have taken CHEE 684
CHEM 429	Chemistry of Energy Generation, Storage and Utilization	3	P - CHEM 212; CHEM 223 and CHEM 243; or CHEM 213 and CHEM 273; or CHEM 204 or CHEM 203; or permission of instructor Restriction: Not open to students who have taken CHEM 319.
CHEM 531	Inorganic Chemistry of Materials	3	P - CHEM 381
CHEM 574	Introductory Polymer Chemistry	3	P - Prerequisites: CHEM 223 and CHEM 243 or CHEM 213 and CHEM 273, or CHEM 233 (for engineering students only), or permission of the instructor. Restriction(s): Not open to students who have taken CHEM 455 or CHEM 674.
CHEM 585	Colloid Chemistry	3	P - CHEM 345, MATH 233 and MATH 315, PHYS 241 and PHYS 242. Students who haven't taken CHEM 223 and CHEM 243 must have taken CHEM 273 or permission of instructor
CIVE 521	Nanomaterials and the Aquatic Environment	3	P - CHEE 315 or CIVE 225 or MIME 356 or equivalent; CHEE 310 or CIVE 430 or CHEM 233 or equivalent; or permission of instructor. Restriction: Not open to students who have taken CHEE 521
CIVE 570	Solar Driven Environmental Processes and Technologies	3	P - CIVE 225 and CIVE 290, or permission of the instructor
EPSC 549	Hydrogeology	3	P - permission of the instructor
FACC 500	Technology Business Plan Design	3	P - FACC 300 or permission of instructor
FACC 501	Technology Business Plan Project	3	P - FACC 300 or permission of instructor Restrictions: Not open to students who have taken FACC 480. Recommended to be taken in combination with FACC 500
MIME 514	Sustainability Analysis of Mining Systems	3	P - FACC 300 and MIME 341, or permission of the instructor
PHYS 534	Nanoscience and technology	3	P - Restriction: U3 or graduate students in Physics, Chemistry, or Engineering, or permission of the instructor.
PHYS 558	Solid State Physics	3	Restriction: U3 Honours students, graduate students, or permission of the instructor
SEAD 515	Climate Change Adaptation and Engineering Infrastructure	3	Restricted to students registered in the Faculty of Engineering (including the School of Architecture and the School of Urban Planning).
SEAD 520	Life Cycle-Based Environmental Footprinting	3	Restricted to students registered in the Faculty of Engineering (including the School of Architecture and the School of Urban Planning).

**Last update: May 26, 2025**

**For the official program listing, see <https://coursecatalogue.mcgill.ca/en/>**