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Chemical engineering handbook mcgill

The Department of Chemical Engineering offers graduate programs at the Master's and Doctoral levels. The following is an overview of these programs. For more details on the graduate program and degree requirements, see our latest manual below. PhD Those with a master's degree in chemical engineering from a recognized institution are admitted to the doctoral program. This requires the completion of several postgraduate courses and a research thesis. Those who hold a master's degree with minimum course requirements or in a field other than chemical engineering may be required to take additional courses. The residency requirement is 3 years, with most students completing the doctorate in 4-5 years. Successful candidates receive a PhD degree. PhD) Chemical Engineering Offered by: Degree in Chemical Engineering: Doctor of Thesis of Philosophy A thesis for the doctorate must constitute an original scholarship and must be a different contribution to knowledge. You must show familiarity with previous work in the field and demonstrate the ability to plan and conduct research, organize results, and defend approach and conclusions in an academic way. The research presented must comply with current discipline standards; also, the thesis must clearly demonstrate how research advances knowledge in the field. Finally, the thesis should be written in accordance with the standards of academic and academic expression and for publication in the public domain. Required courses CHEE 681 Laboratory Safety 1 1 Credits Offered in: Autumn Winter Summer Chemical Engineering: The basics of laboratory safety in a chemical engineering laboratory. Mandatory safety guidance (administration, contacts, fires, waste, emergency procedures) and official WHIMIS training. Offered by: Chemical Engineering The course must be completed at the end of the first semester in which the course is offered during the student's program. Restriction: Restricted to Chemical Engineering students. Terms Autumn 2020 Winter 2021 Summer 2021 Instructors Milan Maric Milan Maric Milan Maric 682 Laboratory Security 2 1 Credits Offered in: Autumn Winter Summer Chemical Engineering: Demonstration of the safety of student thesis experiments to the departmental safety committee. Offered by: M.Eng Chemical Engineering students. must complete the course at the end of the first year of their degree. PhD students must complete the course at the end of the third period of their degree. Corequisite: CHEE 681 Restriction: Restricted to Students of Chemical Engineering. Terms Autumn 2020 Winter 2021 Summer 2021 Milan Maric Milan Maric Milan Maric Milan Maric CHEE 687 Research and English Skills 2 Credits Offered in: Autumn Winter Summer Chemical Engineering: The course provides a basis in three areas: (i) integrity and ethical, ethical, dissemination and translation of knowledge, and (ii) research management. Ethical considerations are discussed in situations involving conflicts of interest, authorship and intellectual property attributions. Students will gain experience in identifying and selecting key information for different situations. Best practices in data reporting, maintenance of research notebooks, and legal aspects of ownership and data rights are discussed. Offered by: Chemical Engineering Restrictions: Restricted to graduate students registered in the Department of Chemical Engineering. Terms Instructors CHEE 795 Ph.D. Thesis proposal offered in: Autumn Winter Summer Chemical Engineering: Independent work under the supervision of thesis advisors leading to a thesis proposal. Offered by: Chemical Engineering Terms Fall 2020 Winter 2021 Summer 2021 Instructors Phillip Servio Phillip Servio Phillip Servio CHEE 796 Ph.D. Defense Proposal offered in: Autumn Winter Summer Chemical Engineering: Presentation and defense of the thesis proposal in an oral exam. Offered By: Chemical Engineering Terms Fall 2020 Winter 2021 Summer 2021 Instructors Phillip Servio Phillip Servio Phillip Servio CHEE 797 Ph.D. Seminar offered at: Autumn Winter Summer Chemical Engineering: Required for all PhD candidates. Presentation of a seminar on one aspect of his thesis work. Offered by: Chemical Engineering Terms Fall 2020 Winter 2021 Summer 2021 Instructors Phillip Servio Phillip Servio Phillip Servio Complementary Courses (6-12 credits) 6-8 credits of Chemical Engineering courses (two courses) at level 500, 600 or 700. 12 credits (three courses) from the following list should be taken during the M.Eng program. and/or Ph.D.: CHEE 611 Heat and Mass Transfer 4 Credits Offered in: Autumn Winter Summer Chemical Engineering: General Conservation Equations for Volumes and Interfaces; scale analysis and approximate solutions to broadcast problems; reaction-dissemination processes; phase changes; convective heat and mass transfer; selected advanced topics. Offered by: Chemical Engineering Terms Instructors CHEE 621. Thermodynamics 4 Credits Offered in: Autumn Winter Summer Chemical Engineering: Theory and application of phase and chemical balances in multi-component systems. Offered by: Terms of Chemical Engineering This course is not scheduled for the academic year 2020-2021. Instructors There are no teachers associated with this course for the academic year 2020-2021. CHEE 631 Fundamentals of Fluid Mechanics 4 Credits offered in: Winter Autumn Summer Chemical Engineering: Rigorous derivation of motion equations; flow inviscid creep flow; boundary layer theory; Stability turbulent flow, separate flows, drag on submerged solids. Offered by: Terms of Chemical Engineering This course is not scheduled for the academic year 2020-2021. Instructors No Teachers Teachers with this course for the academic year 2020-2021. CHEE 641 Chemical Reaction Engineering 4 Credits Offered in: Autumn Winter Summer Chemical Engineering: Interpretation of chemical reaction data, especially for heterogeneous systems. Residence time, complete segregation, maximum mixing, other advanced concepts. Reactor design. Offered by: Chemical Engineering Terms Instructors CHEE 651 Adv Biochemical Engineering 4 Credits Offered in: Autumn Winter Summer Chemical Engineering: The use of chemical engineering and biological principles in the study, design, use and creation of biologically based processes and products. Topics: biochemical thermodynamics, protein engineering, gene expression manipulation, transport phenomena and bioreactor design. Offered by: Chemical Engineering Restriction: Restricted to Graduate Students CheE 662 Instructor Terms Computational Methods 4 Credits Offered in: Winter Winter Chemical Engineering: Weighted Waste Methods; solution to nonlinear algebraic equations; stability in nonlinear equations; forks; mesh refinement strategies; convection dominated transport; hyperbolic equations, particle simulation methods. Offered by: Terms of Chemical Engineering This course is not scheduled for the academic year 2020-2021. Instructors There are no teachers associated with this course for the academic year 2020-2021. CHEE 672 Process Dynamics and Control 4 Credits offered in: Autumn Winter Summer Chemical Engineering: Process Representation and Identification and Simulation; sensor stability; sensitivity of feedback control systems; forward control; discrete representation of continuous systems; controller tuning; adaptive control. Offered by: Chemical Engineering Term Instructors * Note: The number of credits taken will depend on how many of these courses have been taken during the M.Eng program. Three courses from the above list should be taken during the M.Eng.y/o Ph.D. program. If not taken during the M.Eng. program, they should be taken during the doctoral program. For more information, see College Programs, Courses, and Regulations. Applicants with a bachelor's degree who wish to pursue a doctorate without completing a master's degree must apply for admission to the M.Eng (thesis option) program, indicating that their ultimate goal is a doctorate. The candidate has two options to study at the doctoral level: After one year at the master's level, students who perform at an outstanding level in research and course work can apply for the fast track to the doctoral program without presenting a master's thesis. At their request, applicants with exceptionally high academic standards and potential for will be considered for direct admission to the doctoral programme (certain conditions apply). Masters (MEng) All master's programs within the Department of Chemical Engineering include courses Research. There are opportunities for graduate students who want to focus on independent research and gain experience in applying the scientific method. Students who want a traditional classroom-based education can follow a program focused on course work. Programs have evolved to accommodate students with diverse scientific backgrounds and career goals. However, the only requirement that remains constant is academic excellence. Please note that applicants who already have a Master's degree in Chemical Engineering cannot enter our Master's program. M.Eng with research approach Thesis Option Master's Degree emphasizes independent research. In general, this program requires the completion of an intensive research project carried out under the direction of an academic staff member. The research is summarized in a formal thesis presented at the end of the program. A research proposal, the presentation of a seminar and twelve (12) graduate-level course credits are also required. Most students complete the requirements of the M.Eng thesis option in 20 months, earning a Master of Engineering (M.Eng) degree. Required courses, click below: Thesis courses (31 credits) CHEE 697 Thesis Proposal 6 Credits offered in: Autumn Winter Summer Chemical Engineering: Independent work under the supervision of thesis advisors leading to a thesis proposal. Offered by: Chemical Engineering Terms Fall 2020 Winter 2021 Summer 2021 Instructors Phillip Servio Phillip Servio Phillip Servio CHEE 698 Thesis Research 1 12 Credits Offered in: Autumn Winter Summer Chemical Engineering: Ongoing research related to the thesis. Offered by: Chemical Engineering Terms Fall 2020 Winter 2021 Summer 2021 Instructors Phillip Servio Phillip Servio CHEE 699 Thesis Research 2 13 Credits Offered in: Autumn Winter Summer Chemical Engineering: Ongoing research related to the thesis. Offered By: Chemical Engineering Terms Autumn 2020 Winter 2021 Summer 2021 Instructors Phillip Servio Phillip Servio Required Courses (4 credits) CHEE 681 Laboratory Safety 1 1 Credits Offered on: Autumn Winter Summer Chemical Engineering: The Basics of Laboratory Safety in a Chemical Engineering Lab. Mandatory safety guidance (administration, contacts, fires, waste, emergency procedures) and official WHIMIS training. Offered by: Chemical Engineering The course must be completed at the end of the first semester in which the course is offered during the student's program. Restriction: Restricted to Chemical Engineering students. 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Ethical considerations are discussed in situations involving conflicts of interest, authorship and intellectual property attributions. Students will gain experience in identifying and selecting key information for different situations. Best practices in data reporting, maintenance of research notebooks, and legal aspects of ownership and data rights are discussed. Offered by: Chemical Engineering Restrictions: Restricted to graduate students registered in the Department of Chemical Engineering. Terms Instructors Complementary Courses (10 credits) 4 credits of the following: CHEE 611 Heat and Mass Transfer 4 Credits Offered in: Autumn Winter Summer Chemical Engineering: General Conservation Equations for Volumes and Interfaces; scale analysis and approximate solutions to broadcast problems; reaction-dissemination processes; phase changes; convective heat and mass transfer; selected advanced topics. Offered by: Chemical Engineering Terms Instructors CHEE 621 Thermodynamics 4 Credits Offered in: Autumn Winter Summer Chemical Engineering: Theory and application of phase and chemical balances in multi-component systems. Offered by: Terms of Chemical Engineering This course is not scheduled for the academic year 2020-2021. Instructors There are no teachers associated with this course for the academic year 2020-2021. CHEE 631 Fundamentals of Fluid Mechanics 4 Credits offered in: Winter Autumn Summer Chemical Engineering: Rigorous derivation of motion equations; flow inviscid creep flow; boundary layer theory; hydrodynamic stability; turbulent flow, separate flows, drag on submerged solids. Offered by: Terms of Chemical Engineering This course is not scheduled for the academic year 2020-2021. Instructors There are no teachers associated with this course for the academic year 2020-2021. CHEE 641 Chemical Reaction Engineering 4 Credits offered in: Autumn Winter Summer Chemical Engineering: Interpretation of chemical reaction data, especially for heterogeneous systems. Residence time, complete segregation, maximum mixing, other advanced concepts. Reactor design. Offered by: Terms of Chemistry Instructors CHEE 651 Adv Biochemical Engineering 4 Credits Offered in: Winter Winter Chemical Engineering: The Use of Chemical Engineering and Biological Principles in Study, Design, Use Use creation of biologically based processes and products. Topics: biochemical thermodynamics, protein engineering, gene expression manipulation, transport phenomena and bioreactor design. Offered by: Chemical Engineering Restriction: Restricted to Graduate Students CheE 662 Instructor Terms Computational Methods 4 Credits Offered in: Winter Winter Chemical Engineering: Weighted Waste Methods; solution to nonlinear algebraic equations; stability in nonlinear equations; forks; mesh refinement strategies; convection dominated transport; hyperbolic equations, particle simulation methods. Offered by: Terms of Chemical Engineering This course is not scheduled for the academic year 2020-2021. Instructors There are no teachers associated with this course for the academic year 2020-2021. CHEE 672 Process Dynamics and Control 4 Credits offered in: Autumn Winter Summer Chemical Engineering: Process Representation and Identification and Simulation; sensor stability; sensitivity of feedback control systems; forward control; discrete representation of continuous systems; controller tuning; adaptive control. Offered by: Chemical Engineering Term Instructors A minimum of 3 credits of Chemical Engineering courses at level 500, 600 or 700. Any remaining supplemental credit requirements can be met by completing Chemical Engineering or other Engineering or Science courses at level 500, 600 or 700. For more information, see College Programs, Courses, and Regulations. Regulations.

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