

Diploma in Mechanical Engineering

Program Plan for Non Co-op Students who started September 2015

Non Co-op Students		
September 2015		Requisites
ENGL 170	Technical and Professional Communication 1	Program Entry
ENGR 190	Orientation	Program Entry
MATH 185	Math for Civil/Mech 1	Program Entry
MECH 161A	Manufacturing Processes 1	Program Entry
MECH 161B	Manufacturing Processes 2	Program Entry
MENG 152	Engineering Graphics and Modelling	Program Entry
PHYS 191	Physics 1 Civil/Mechanical	Program Entry

January 2016		Requisites
MATH 187	Math for Civil/Mech 2	Math 185
MECH 159	Mechanical Control Programming	Program Entry
MECH 173	Static/Strengths of Materials	Math 185, Phys 191
MENG 131	Fluid Power	Program Entry
PHYS 192	Physics 2 Civil/Mechanical	Phys 191

April 2016		Requisites
COOP WEP	Workplace Education Prep	Program Entry
CHEM 160	Chemistry and Materials	Program Entry
ECET 149	Electricity and Machines	Phys 191
ENGR 177	Fluid Dynamics 1	Mech 173
MATH 189	Math for Civil/Mech 3	Math 187
MECH 175	Dynamics	Math 187, Mech 173
MENG 162	Building Systems	Program Entry

Non Co-op Students		
September 2016		Requisites
ECET 248	Electronics for Mechanical	Ecet 149
MENG 253	Mechanics and Vibrations of Machines	Math 189, Mech 173 & 175, Meng 283
MENG 263	Fluids and Heat Transfer	Engr 177, Meng 162
MENG 273	Strength of Materials	Mech 173 & 175
MENG 283	Control Systems	Mech 159
MENG 293	Project Management & Social Responsibility	Engl 170, Meng 152, Meng 162

January 2017		Requisites
MENG 244	Manufacturing Processes 2/CAM	Mech 161a & 161b, Meng 152
MENG 254	Machine Design	Meng 253, Meng 273
MENG 264	Thermodynamics	Meng 263
MENG 274	Advanced Strength of Materials	Meng 273
MENG 284	Robotics and Automation	Ecet 149, Meng 283
PHYS 272	Energy and Sustainability	Math 189, Phys 192

May 2017		Requisites
ENGL 273	Technical Communications	Engl 170, Meng 295
MENG 245	Manufacturing Processes 3 & Quality Control	Math 189, Mech 161a & 161b
MENG 275	Computational Methods and FEA	Math 189, Meng 273
MENG 295	Project Planning and Design	Ecet 248, Engl 273, Meng 245, Meng 253 Meng 263, Meng 273, Meng 283, Meng 293

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Program Plan for Co-op Students who started September 2015

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September 2015		Requisites
ENGL 170	Technical and Professional Communication 1	Program Entry
ENGR 190	Orientation	Program Entry
MATH 185	Math for Civil/Mech 1	Program Entry
MECH 161A	Manufacturing Processes 1	Program Entry
MECH 161B	Manufacturing Processes 2	Program Entry
MENG 152	Engineering Graphics and Modelling	Program Entry
PHYS 191	Physics 1 Civil/Mechanical	Program Entry

January 2016		Requisites
MATH 187	Math for Civil/Mech 2	Math 185
MECH 159	Mechanical Control Programming	Program Entry
MECH 173	Static/Strengths of Materials	Math 185, Phys 191
MENG 131	Fluid Power	Program Entry
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COOP WEP	Workplace Education Prep	Program Entry
CHEM 160	Chemistry and Materials	Program Entry
ECET 149	Electricity and Machines	Phys 191
ENGR 177	Fluid Dynamics 1	Mech 173
MATH 189	Math for Civil/Mech 3	Math 187
MECH 175	Dynamics	Math 187, Mech 173
MENG 162	Building Systems	Program Entry

July 2016	Coop Work Term
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Co-op Students		
September 2016		Requisites
ECET 248	Electronics for Mechanical	Ecet 149
MENG 253	Mechanics and Vibrations of Machines	Math 189, Mech 173 & 175, Meng 283
MENG 263	Fluids and Heat Transfer	Engr 177, Meng 162
MENG 273	Strength of Materials	Mech 173 & 175
MENG 283	Control Systems	Mech 159
MENG 293	Project Management & Social Responsibility	Engl 170, Meng 152, Meng 162

January 2017	Coop Work Term
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May 2017		Requisites
ENGL 273	Technical Communications	Engl 170, Meng 295
MENG 245	Manufacturing Processes 3 & Quality Control	Math 189, Mech 161a & 161b
MENG 275	Computational Methods and FEA	Math 189, Meng 273
MENG 295	Project Planning and Design	Ecet 248, Engl 273, Meng 245, Meng 253 Meng 263, Meng 273, Meng 283, Meng 293

September 2017	Coop Work Term
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January 2018		Requisites
MENG 244	Manufacturing Processes 2/CAM	Mech 161a & 161b, Meng 152
MENG 254	Machine Design	Meng 253, Meng 273
MENG 264	Thermodynamics	Meng 263
MENG 274	Advanced Strength of Materials	Meng 273
MENG 284	Robotics and Automation	Ecet 149, Meng 283
PHYS 272	Energy and Sustainability	Math 189, Phys 192

Diploma in Mechanical Engineering

Program Plan for Students who started September 2015 and want to take Bridge Program to UBC

Students who want to take Bridge Program to UBC		
September 2015		Requisites
ENGL 170	Technical and Professional Communication 1	Program Entry
ENGR 190	Orientation	Program Entry
MATH 185	Math for Civil/Mech 1	Program Entry
MECH 161A	Manufacturing Processes 1	Program Entry
MECH 161B	Manufacturing Processes 2	Program Entry
MENG 152	Engineering Graphics and Modelling	Program Entry
PHYS 191	Physics 1 Civil/Mechanical	Program Entry

January 2016		Requisites
MATH 187	Math for Civil/Mech 2	Math 185
MECH 159	Mechanical Control Programming	Program Entry
MECH 173	Static/Strengths of Materials	Math 185, Phys 191
MENG 131	Fluid Power	Program Entry
PHYS 192	Physics 2 Civil/Mechanical	Phys 191

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COOP WEP	Workplace Education Prep	Program Entry
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MATH 189	Math for Civil/Mech 3	Math 187
MECH 175	Dynamics	Math 187, Mech 173
MENG 162	Building Systems	Program Entry

July 2016	Internship (Optional) or Holiday
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September 2016		Requisites
ECET 248	Electronics for Mechanical	Ecet 149
MENG 253	Mechanics and Vibrations of Machines	Math 189, Mech 173 & 175, Meng 283
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MENG 244	Manufacturing Processes 2/CAM	Mech 161a & 161b, Meng 152
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MENG 264	Thermodynamics	Meng 263
MENG 274	Advanced Strength of Materials	Meng 273
MENG 284	Robotics and Automation	Ecet 149, Meng 283
PHYS 272	Energy and Sustainability	Math 189, Phys 192

May 2017		Requisites
ENGL 273	Technical Communications	Engl 170, Meng 295
MENG 245	Manufacturing Processes 3 & Quality Control	Math 189, Mech 161a & 161b
MENG 275	Computational Methods and FEA	Math 189, Meng 273
MENG 295	Project Planning and Design	Ecet 248, Engl 273, Meng 245, Meng 253 Meng 263, Meng 273, Meng 283, Meng 293

September 2017	Bridge Program to UBC Term 1
January 2018	Bridge Program to UBC Term 2
May 2018	Internship (Optional) or Holiday
September 2018	Engineering Program at UBC

Diploma in Mechanical Engineering

Program Plan for Students who started September 2015 and want to take Bridge Program to UVic

Students who want to take Bridge Program to UVic		
September 2015		Requisites
ENGL 170	Technical and Professional Communication 1	Program Entry
ENGR 190	Orientation	Program Entry
MATH 185	Math for Civil/Mech 1	Program Entry
MECH 161A	Manufacturing Processes 1	Program Entry
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MENG 162	Building Systems	Program Entry

July 2016	Internship (Optional) or Holiday
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Students who want to take Bridge Program to UVic		
September 2016		Requisites
ECET 248	Electronics for Mechanical	Ecet 149
MENG 253	Mechanics and Vibrations of Machines	Math 189, Mech 173 & 175, Meng 283
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ENGL 273	Technical Communications	Engl 170, Meng 295
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MENG 275	Computational Methods and FEA	Math 189, Meng 273
MENG 295	Project Planning and Design	Ecet 248, Engl 273, Meng 245, Meng 253 Meng 263, Meng 273, Meng 283, Meng 293

September 2017	Internship (Optional) or Holiday
January 2018	Bridge Program to UVic Term 1
May 2018	Internship (Optional) or Holiday
September 2018	Bridge Program to UVic Term 2
January 2019	Engineering Program at UVic

Overview

As you may be aware, the Diploma in Mechanical Engineering is moving over to the semester system September 2016. The purpose of this document is to show the courses and terms that students starting in September 2015 will need to take to finish the program.

Program Completion Requirements

To qualify for the Diploma in Mechanical Engineering, a student must complete all program courses including Workplace Education Prep, and achieve an overall GPA of at least 2.0 in order to qualify for a diploma.

Admission Requirements to Mechanical Engineering Bridge Programs

Graduates of the Diploma in Mechanical Engineering program with a GPA of at least 5.0 (B) and no grade less than a "C" in any course may apply for the Camosun College Mechanical Engineering Bridge Program to UBC, or the Camosun College Mechanical Engineering Bridge Program to UVic.

Students who cannot follow the Program Plan as outlined

Students who cannot take the program on a full time basis need to connect with the School of Trades and Technology Academic Advisor to discuss course planning:

academicadvising@camosun.bc.ca.

Who to Contact:

- Questions about program credential requirements contact the **School of Trades and Technology Academic Advisor:** academicadvising@camosun.bc.ca
- Questions about the program content, contact the **Chair of Mechanical Engineering:** lyle@camosun.ca | 250-370-4511
- Questions about co-operative education, work terms, internships: **Co-operative Education & Student Employment:** co-op@camosun.bc.ca | 250-370-4410