Department of Mechanical Engineering

Request for Pathway Certificate

Students, who complete 6 units in one of the Pathways listed, can request a Pathway Certificate from the Dept. of Mechanical Engineering. The Pathway will not appear on the Student's transcript. A Student may apply for a maximum of two Pathways, the Pathways may share up to 3 units of courses.

Advanced Materials

- □ MECH 472: Introduction to Electron Microscopy
- □ MECH 473: Ferrous and Non-Ferrous Metals
- $\hfill\square$ MECH 481: Biomaterials and Tissue Engineering
- □ Topic, Thesis, or Project courses*

Biomedical Engineering

- MECH 448: Introduction to Musculoskeletal Biomechanics
- MECH 452: Microfluidics for Biomedical and Energy Applications
- MECH 472: Introduction to Electron Microscopy
- □ MECH 481: Biomaterials and Tissue Engineering
- MECH 483: Mechanics and Energy conversion for Living Cells
- □ Topic, Thesis, or Project courses*

Computer Aided Engineering and Advanced Manufacturing

- □ MECH 410: Computer-Aided Design and Engineering
- □ MECH 420: Finite Element Applications
- □ MECH 460: Computer-Aided Manufacturing
- MECH 495: Computational Fluid Dynamics and Heat Transfer
- □ MECH 497: Green Vehicle Technology Project
- □ Topic, Thesis, or Project courses*

Energy Systems

- □ MECH 431: Advanced Fluid Mechanics
- □ MECH 442: Heating, Ventilation, and Air Conditioning Systems
- □ MECH 443: Advanced Thermodynamics
- □ MECH 444: Wind Power Systems
- □ MECH 446: Introduction to Ocean Engineering
- □ MECH 447: Energy Systems
- □ MECH 449: Fuel Cell Technology
- □ MECH 459: Fundamentals of Hybrid Electric Vehicles
- MECH 492: Transport Phenomena
- □ MECH 493: Design of Thermo-Fluid Systems
- □ MECH 497: Green Vehicle Technology Project
- □ Topic, Thesis, or Project courses*See next page.

Mechatronics

- □ MECH 421: Mechanical Vibrations
- MECH 430: Robotics
- □ MECH 455: Instrumentation
- □ MECH 458: Mechatronics
- MECH 459: Fundamentals of Hybrid Electric Vehicles
- \Box MECH 487: Sensors and Actuators
- □ Topic, Thesis, or Project courses*

Thermo-Fluids and Aerodynamics

- □ MECH 431: Advanced Fluid Mechanics
- □ MECH 442: Heating, Ventilation, and Air Conditioning Systems
- □ MECH 443: Advanced Thermodynamics
- □ MECH 444: Wind Power Systems
- □ MECH 446: Introduction to Ocean Engineering
- □ MECH 447: Energy Systems
- □ MECH 475: Aircraft Design
- □ MECH 492: Transport Phenomena
- □ MECH 493: Design of Thermo-Fluid Systems
- MECH 495: Computational Fluid Dynamics and Heat Transfer
- □ Topic, Thesis, or Project courses*

*Topic, Thesis, or Project coursesMECH 450**A-F**: Special Topics MECH 498: Honours Thesis MECH 499: Technical Project

**Students taking MECH 450A-F, MECH 498, and MECH 499 are required to request confirmation fromthe Undergrad Secretary that the topic applies to thespecific pathway (mech.sec@uvic.ca).

Department of Mechanical Engineering

Request for Pathway Certificate

Student Name:	Date:	
UVic Email:	Student #: V00_	
Pathway 1		
 Advanced Materials Biomedical Engineering Computer Aided Engineering and Advanced Manufacturing 	 Energy Systems Thermo-Fluids and Aerodyn Mechatronics 	amics
Course #:	Course #:	
Course #:	Course #:	
Special Topic, Thesis, or Project title(s) (if applicable):		
Pathway 2		
 Advanced Materials Biomedical Engineering Computer Aided Engineering and Advanced Manufacturing 	 Energy Systems Thermo-Fluids and Aerodyn Mechatronics 	amics
Course #:	Course #:	
Course #:	Course #:	
Special Topic, Thesis, or Project title(s) (if applic	able):	
Student Signature:	Date:	
OFFICE USE ONLY		
Student has applied for Graduation: Yes No		
Student has completed all listed courses: Yes No		
Special Topic, Thesis, or Project courses have been approved for the specified Pathway(s): Yes No		
Notes:		
Undergraduate Director Signature:	Date:	