

DEPARTMENT OF MECHANICAL ENGINEERING

Request for Pathway Certificate

Student Name: _____

Date: _____

UVic email address: _____

UVic Student Number: **V** _____

Advanced Materials ☐

MECH 423 Engineering Ceramics
MECH 471 Fracture, Fatigue, and Mechanical Reliability
MECH 472 Introduction to Electron Microscopy
MECH 473 Ferrous and Non-Ferrous Metals
MECH 481 Bio Materials & Tissue Engineering

Topic, thesis or project courses *

Biomedical Engineering ☐

ELEC 434 Biophotonics
ELEC 435 Medical Image Processing
MECH 472 Introduction to Electron Microscopy
MECH 481 Bio Materials & 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
MECH 411 Planning and Control of Production Systems
MECH 420 Finite Element Applications
MECH 459 Fundamentals of Hybrid Vehicles
MECH 460 Computer Aided Manufacturing
MECH 466 Microelectromechanical Systems
MECH 462 Small Business Organization
MECH 495 Computational Fluid Dynamics and Heat Transfer

Topic, thesis or project courses *

Energy Systems ☐

ENGR 400 Sustainable Energy Systems Design Project
MECH 443 Advanced Thermodynamics
MECH 444 Wind Power Systems
MECH 445 Cryogenic Engineering
MECH 446 Introduction to Ocean Engineering
MECH 447 Energy Systems
MECH 449 Fuel Cell Technology
MECH 459 Fundamentals of Hybrid Vehicles
MECH 493 Design of Thermo-Fluid Systems
MECH 494 Thermofluids and Introduction to Mass Transfer
MECH 497 Green Vehicle Technology Project

Topic, thesis or project courses *

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List all courses to be applied to specific area - 6 units required (typically 4 courses). Maximum two Pathways; they may share a maximum of 3 units.

Include course topic for MECH 450, 498, or 499: _____

Fluids and Aerodynamics ☐

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 494 Thermofluids and Introduction to Mass Transfer
MECH 495 Computational Fluid Dynamics and Heat Transfer

Topic, thesis or project courses *

Mechatronics ☐

MECH 421 Mechanical Vibrations
MECH 430 Robotics
MECH 458 Mechatronics
MECH 459 Fundamentals of Hybrid Vehicles
MECH 464 Mechatronics Design Project (1.5 units, **required** for Mechatronics certificate)
MECH 466 Microelectromechanical Systems
MECH 485 Mechanisms and Manipulator Synthesis

Topic, thesis or project courses *

Topics, Thesis or Projects Courses ☐

*Can be used for only one pathway certificate, when deemed related to the pathway area by the course instructor.

MECH 450 Special Topics Courses
MECH 497 Green Vehicle Technology Project (3.0 units)
MECH 498 Honours Thesis (3.0 units)
MECH 499 Technical Project (1.5 units)

Students taking MECH 450, 497, 498, 499 are required to request the instructor to send an email to MECH UG Director confirming that course topic is related to specific pathway.

Students, who complete 6 units in one of the pathways listed, can request a letter/certificate from the Dept of Mechanical Engineering office confirming this; **the pathway will not be shown on the transcript.**

MENG UG Director _____

Signature of Student _____

DATE: _____