Framingham State Pre-Engineering Program to WPI Transfer Pathway

Framingham State University Course	Credits	Worcester Polytechnic Institute Course	Units
CHE107/107L: Principles of Chemistry with Lab	4	* CH 1010: Chemical Properties, Bonding, and Forces	1/3
EGNR 101: Introduction to Engineering	4	ES 1020: Introduction to Engineering	1/3
ENWR 110: Composition II	4	WR 1020: Introduction to Rhetoric	1/3
MATH 219: Calculus I	4	# MA 1021: Calculus I	1/3
CHE108/108L: Principles of Chemistry and Quantitative Analysis	4	* CH 1020 Chemical Reactions	1/3
CSCI 130: Computer Science I Using Java	4	CS 1XXX: Computer Science 1000 Level Elective	1/3
ECON 102: Principles of Microeconomics	4	ECON 1110: Introduction to Microeconomics	1/3
MATH 220: Calculus II	4	# MA 1022: Calculus II	1/3
MATH 221: Calculus III	4	# MA 1024: Calculus IV	1/3
PHYS 211/211L: Principles of Physics I with Lab	4	PH 1110: General Physics-Mechanics	1/3
ENGL 311: Writing for Science OR ENGL 372 Technical Writing	4	WR 1011: Writing about Science & Technology OR WR 3210: Technical Writing	1/3
_____ ____: Science restricted elective 1*	4	See Science restricted electives table below	1/3
ENVS 202: Data Analysis for Scientists	4	MA 2610: Applied Statistics for the Life Sciences or MA 2611: Applied Statistics	1/3
PHIL 102: Introduction to Ethics (SS elective$)	4	PY 1731: Introduction to Philosophy and Religion	1/3
PHYS 212/212L: Principles of Physics II with Lab	4	PH 1120: Electricity and Magnetism	1/3
_____ ____: Science restricted elective 2*	4	See Science restricted electives table below	1/3

Science restricted electives

BIOL 130/130L: Principles of Biology with Lab	4	BB 1XXX: Biology Elective	1/3
CHEM 207/207L: Organic Chemistry I with Lab	4	** CH 2310: Organic Chemistry I	1/3
CHEM 208/208L: Organic Chemistry II with Lab	4	** CH 2320: Organic Chemistry II	1/3
CHEM 241: Introduction to Heat and Mass Transfer	4	ES 3XXX: Engineering Science 3000 Level Elective	1/3
CSCI 156: Python Programming for Applications	4	CS 1004: Introduction to Programming for Non-Majors	1/3
EGNR 201: Engineering Statics	4	ES 2501: Introduction to Statics	1/3
EGNR 212: Engineering Dynamics	4	ES 2503: Introduction to Dynamics	1/3
GEOL 208/208L: Principles of Phys. Geology w/ Lab	4	GE 2341: Geology	1/3
MATH 222: Differential Equations	4	MA 2051: Ordinary Differential Equations	1/3

** CHE107/107L and CHE108/108L combined are equivalent to CH 1010, CH 1020, and CH 1030*
*** CHEM 207/207L and CHEM 208/208L combined are equivalent to CH 2310, CH 2320, and CH 2360*
 # MATH 219, MATH 220, MATH 221 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024
$ ECON 101, ENVS 246, GEOG 260, and GEOG 380 are equivalent to WPI courses, which are social science courses at WPI (ECON 1120, ENV 1100, ENV 2201, ENV 2201, respectively). Most students at WPI take ID 2050 in preparation for one of the WPI projects, which is a social science course. WPI requires two social science courses, so taking two courses that would be equivalent to social science courses at WPI is less desirable.

*This document reflects an **UNOFFICIAL** evaluation of undergraduate transfer credits by Worcester Polytechnic Institute as of November 1, 2024, and it may differ from an official evaluation, which would be completed upon receipt of an application for admission and all official transcripts.*