



Worcester State Pre-Engineering Program to WPI Transfer Pathway
to 'Aerospace', 'Architectural', 'Biomedical', 'Chemical', 'Civil', 'Electrical & Computer', 'Environmental', 'Mechanical', 'Robotics', or
'Industrial' Engineering at WPI

Worcester State University Course	Credits	Worcester Polytechnic Institute Course	Units	Aerospace	Architectural	Biomedical	Chemical	Civil	Elec/Comp	Environmental	Mechanical	Robotics	Industrial
CH-120 General Chemistry I	4	* CH 1010: Chemical Properties, Bonding, and Forces	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CH-121 General Chemistry II	4	* CH 1020: Chemical Reactions	1/3	✓	---	✓	✓	✓	✓	✓	✓	✓	✓
CH/PY 180 Intro to Engineering	5	ES 1020: Introduction to Engineering	1/3	✓	---	✓	✓	✓	✓	✓	✓	✓	✓
CS-140 Introduction to Programming	4	CS 1XXX: Computer Science 1000 Level Elective	1/3	✓	---	✓	---	✓	✓	✓	✓	✓	✓
EN-101 College Writing I	3	WR 1010: Elements of Writing / WR2010/ EN2211	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EN-102 College Writing II	3	WR 1020: Introduction to Rhetoric	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EN-252 Technical Writing	3	WR 3210: Technical Writing	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PY-193 First Year Seminar	3	No WPI Equivalency	---	---	---	---	---	---	---	---	---	---	---
PS-101 General Psychology – OR – SO-100 Introduction to Sociology	3	PSY 1400: Introduction to Psychological Science – Or – SOC 1202: Introduction to Sociology & Cultural Diversity	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HE-100 Personal Health – OR – HE-120 Health & Nutrition	3	WPE 1610: Approaches to Holistic Well-Being – OR – WPE 1699: Special Topics in Holistic Well-Being	1/12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MA-200 Calculus I	4	# MA 1021: Calculus I	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MA-201 Calculus II	4	# MA 1023: Calculus II	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MA-310 Calculus III	4	# MA 1024: Calculus IV	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PY-241 Physics I (Mechanics)	4	PH 1110: General Physics-Mechanics	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PY-242 Physics II (Electricity, Magnetism, and Optics)	4	PH 1120: Electricity and Magnetism	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Science Restricted Elective 1	4	See Science Restricted Electives table below	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Science Restricted Elective 2	4	See Science Restricted Electives table below	1/3	✓	---	✓	✓✓	✓	✓	✓	✓	✓	✓
Philosophy Elective: PH-100, PH-115, PH-130, PH-131	3	PY 1731: Introduction to Philosophy and Religion – OR – PY 2731: Ethics	1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
* CH120 and CH121 combined are equivalent to CH 1010, CH 1020, and CH 1030			1/3	✓	---	✓	✓	✓	✓	✓	✓	✓	---
# MA200, MA201, MA310 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024			1/3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Checkmarks (✓) denote that the course will count towards the specified degree's requirement.

Final review and confirmation that a course will fulfill a degree requirement based on the degree requirements within the undergraduate catalog at the time of matriculation to WPI.

*This document reflects an **UNOFFICIAL** evaluation of undergraduate transfer credits by Worcester Polytechnic Institute as of April 02, 2026, and it may differ from an official evaluation, which would be completed upon receipt of an application for admission and all official transcripts.*

Science Restricted Electives Table

Worcester State University Course	Credits	Worcester Polytechnic Institute Course	Units
BI-140: Introduction to Organismal Biology	4	BB 1XXX: Biology Elective	1/3
BI-161: Human Anatomy and Physiology I	4	BB 3101: Human A&P: Movement & Communication	1/3
BI-203: Genetics	4	BB 2920: Genetics	1/3
CH-201 & CH-203: Organic Chemistry I with Lab [§]	5	CH2310: Organic Chemistry I	1/3
CH-202 & CH-204: Organic Chemistry II with Lab [§]	5	CH2320: Organic Chemistry II	1/3
CS-141: Data Cleaning and Preprocessing	3	CS 1XXX: Introduction to Programming for Non-Majors	1/3
CS 242: Data Structures	3	CS 2102: Object-Oriented Design Concepts	1/3
GS 140: Physical Geology	4	GE 2341: Geology	1/3
GS/EV 348: Earth Data Analytics	4	EL 1XXX: General Elective 1000 Level	1/3
PY/CH 360 - Materials Science	3	ES 2001: Introduction to Materials Science	1/3
MA-320 Ordinary Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3

[§] Additionally, CH203 and CH204 combined are equivalent to CH 2360 Organic Laboratory

When possible, avoid taking courses that transfer as elective courses (e.g., BB 1XXX, CS 1XXX, or EL 1XXX)

Potential Science Restricted Electives based on anticipated WPI major

WPI Major	Suggested WSU Course	WPI Major	Suggested WSU Course
Aerospace Engineering	MATH 320 PY/CH 360	Electrical & Computer Engineering	MATH 320 PY/CH 360
Architectural Engineering	MATH 320 Any	Environmental Engineering	MATH 320 PY/CH 360 OR GS/EV 140
Biomedical Engineering	MATH 320 PY/CH 360	Industrial Engineering	MATH 320 PY/CH 360
Chemical Engineering	CH 201/CH203 CH 202/CH204	Mechanical Engineering	MATH 320 PY/CH 360
Civil Engineering	MATH320 PY/CH 360 or GS 140	Robotics Engineering	MATH 320 PY/CH 360

Please review the WPI Undergraduate Catalog for more information <https://wpi.cleancatalog.net/>

WPI degree tracking sheets can be found here: <https://www.wpi.edu/student-experience/resources/academic-advising/program-tracking-sheets>

Information on the WPI Terms and Credit Unit System can be found here: <https://wpi.cleancatalog.net/wpi-degree-requirements>

*This document reflects an **UNOFFICIAL** evaluation of undergraduate transfer credits by Worcester Polytechnic Institute as of April 02, 2026, and it may differ from an official evaluation, which would be completed upon receipt of an application for admission and all official transcripts.*