Transfer Pathways for Select Middlesex Community College STEM and Business Associate Degrees to Select Worcester Polytechnic Institute Four-Year Degrees

*This document reflects an **UNOFFICIAL** evaluation of undergraduate transfer credits by Worcester Polytechnic Institute as of June 30, 2025, and it may differ from an official evaluation, which would be completed upon receipt of an application for admission and all official transcripts.*

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Each Middlesex CC associate degree provides ideas for what major you could pursue at WPI on the following pages.

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 is based on the degree requirements within the undergraduate catalog at the time of matriculation to WPI.

More Electives courses may be equivalent to a WPI course but have not been evaluated.

** Best to take courses that transfers as a WPI numbered courses rather than 1XXX or 2XXX Level electives **

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

Engineering Science Transfer - Biomedical at Middlesex to Biomedical Engineering at WPI

MCC Course	Credits	WPI Course	Units	BME
IDS 101: First-Year Experience and two additional IDS electives	3	EL 1XXX: 1000 Level General Elective	1/3	---
CSC 151: Programming I	4	CS 1XXX: Computer Science 1000 Level Elective	1/3	✓
CHE 151: General Chemistry for Engineering and Science	4	*CH 1010: Chemical Properties, Bonding, And Forces	1/3	✓
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓
MAT 290: Calculus I for Engineering and Science	4	#MA 1021: Calculus I	1/3	✓
CHE 152: General Chemistry for Engineering and Science	4	*CH 1020: Chemical Reactions	1/3	✓
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓
MAT 291: Calculus II for Engineering and Science	4	#MA 1022: Calculus II	1/3	✓
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics-Mechanics	1/3	✓
EGR 101: Introduction to Engineering	4	ES 1020: Introduction to Engineering	1/3	✓
BIO 131: General Biology I	4	BB 1101: Foundations in Cellular and Molecular Biotechnology	1/3	✓
PHY 172: Physics for Engineering and Science II	4	PH 1120: General Physics-Electricity and Magnetism	1/3	✓
CHE 251: Organic Chemistry I and Lab	4	CH 2310: Organic Chemistry I	1/3	✓
MAT 292: Calculus III for Engineering and Science	4	#MA 1024: Calculus IV	1/3	✓
ETH 101: Ethics and Society	3	PY 2712: Social and Political Philosophy	1/3	✓
EGR 214: Thermodynamics	3	ES 3001: Thermodynamics	1/3	✓
MAT 298: Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3	✓
ECO 140: Macroeconomics	3	ECON 1120: Introductory Macroeconomics	1/3	✓
Humanities Elective	3	See ENGR Humanities Electives Table (rec: ENG or PY course that transfers at the 2000 level)	1/3	✓

**CHM 151 and CHM 152 together are equivalent to CH 1010, CH 1020, and CH 1030* ---

#MAT 290, MAT 291, and MAT 292 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024 ✓

Engineering Science Transfer - Chemical Engineering at Middlesex to Chemical Engineering at WPI

MCC Course	Credits	WPI Course	Units	CHE
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓
MAT 290: Calculus I for Engineering and Science	4	#MA 1021: Calculus I	1/3	✓
CHE 151: General Chemistry for Engineering and Science	4	*CH 1010: Chemical Properties, Bonding, And Forces	1/3	✓
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics-Mechanics	1/3	✓
IDS 101: First-Year Experience and two additional IDS electives	3	EL 1XXX: 1000 Level General Elective	1/3	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓
MAT 291: Calculus II for Engineering and Science	4	#MA 1022: Calculus II	1/3	✓
CHE 152: General Chemistry for Engineering and Science	4	*CH 1020: Chemical Reactions	1/3	✓
EGR 101: Introduction to Engineering	3	ES 1020: Introduction to Engineering	1/3	✓
ETH 101: Ethics and Society	3	PY 2712: Social and Political Philosophy	1/3	✓
MAT 292: Calculus III for Engineering and Science	4	#MA 1024: Calculus IV	1/3	✓
CHE 251: Organic Chemistry I and Lab	4	CH 2310: Organic Chemistry I	1/3	✓
ECO 140: Macroeconomics	3	ECON 1120: Introductory Macroeconomics	1/3	✓
EGR 217: Material Balances	3	CHE 2011: Chemical Engineering Fundamentals	1/3	✓
BIO 131: General Biology I	4	BB 1101: Foundations in Cellular & Molecular Biotechnology	1/3	✓
MAT 298: Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3	✓
Humanities Elective	3	See ENGR Humanities Electives Table (rec: ENG or PY course that transfers at the 2000 level)	1/3	✓
CHE 252: Organic Chemistry II and Lab	4	CH 2320: Organic Chemistry II	1/3	✓
EGR 209/ CHEN 3030: Fluid Mechanics (taken at UML via NECCUM)	3	ES 3004: Fluid Mechanics	1/3	✓
EGR 214: Thermodynamics	3	ES 3001: Thermodynamics	1/3	✓
				✓

**CHM 151 and CHM 152 together are equivalent to CH 1010, CH 1020, and CH 1030*

#MAT 290, MAT 291, and MAT 292 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024

✓

Engineering Science Transfer - Civil Environmental at Middlesex to 'Architectural', 'Civil', or 'Environmental' Engineering at WPI

MCC Course	Credits	WPI Course	Units	AREN	CE	EVE
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓	✓	✓
MAT 290: Calculus I for Engineering and Science	4	#MA 1021: Calculus I	1/3	✓	✓	✓
CHE 151: General Chemistry for Engineering and Science	4	*CH 1010: Chemical Properties, Bonding, And Forces	1/3	✓	✓	✓
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics-Mechanics	1/3	✓	✓	✓
IDS 101: First-Year Experience & two additional IDS electives	3	EL 1XXX: 1000 Level General Elective	1/3	---	✓	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓	✓	✓
MAT 291: Calculus II for Engineering and Science	4	#MA 1022: Calculus II	1/3	✓	✓	✓
CHE 152: General Chemistry for Engineering and Science	4	*CH 1020: Chemical Reactions	1/3	✓	✓	✓
EGR 101: Introduction to Engineering	3	ES 1020: Introduction to Engineering	1/3	---	✓	✓
PHY 172: Physics for Engineering and Science II	4	PH 1120: General Physics-Electricity and Magnetism	1/3	✓	✓	✓
MAT 292: Calculus III for Engineering and Science	4	#MA 1024: Calculus IV	1/3	✓	✓	✓
EGR 210: Statics	3	ES 2501: Intro to Static Systems	1/3	---	✓	✓
ECO 140: Principles of Macroeconomics	3	ECON 1120: Introductory Macroeconomics	1/3	✓	✓	✓
EGR 205/CIVE.2250: Surveying - taken at UML	3	CE 2020: Surveying	1/3	---	✓	✓
ETH 101: Ethics and Society	3	PY 2712: Social and Political Philosophy	1/3	✓	✓	✓
MAT 298: Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3	✓	✓	✓
Humanities Elective	3	See ENGR Humanities Electives Table (rec: ENG or PY course that transfers at the 2000 level)	1/3	✓	✓	✓
EGR 211: Strength of Materials	3	ES 2502: Stress Analysis	1/3	---	✓	✓
EGR 212: Dynamics	3	ES 2503: Intro to Dynamic Systems	1/3	---	✓	---
*CHM 151 and CHM 152 together are equivalent to CH 1010, CH 1020, and CH 1030				---	---	✓
#MAT 290, MAT 291, and MAT 292 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024				✓	✓	✓

Engineering Science Transfer – Electrical & Computer at Middlesex to Electrical and Computer Engineering at WPI

MCC Course	Credits	WPI Course	Units	ECE
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓
MAT 290: Calculus I for Engineering and Science	4	#MA 1021: Calculus I	1/3	✓
CHE 151: General Chemistry for Engineering and Science	4	CH 1010: Chemical Properties, Bonding, And Forces	1/3	✓
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics-Mechanics	1/3	✓
IDS 101: First-Year Experience & two additional IDS electives	3	EL 1XXX: 1000 Level General Elective	1/3	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓
MAT 291: Calculus II for Engineering and Science	4	#MA 1022: Calculus II	1/3	✓
PHY 172: Physics for Engineering and Science II	4	PH 1120: General Physics-Electricity and Magnetism	1/3	✓
EGR 101: Introduction to Engineering	3	ES 1020: Introduction to Engineering	1/3	✓
ETH 101: Ethics and Society	3	PY 2712: Social and Political Philosophy	1/3	✓
MAT 292: Calculus III for Engineering and Science	4	#MA 1024: Calculus IV	1/3	✓
EGR 215: Intro to Data Communications	3	No WPI Equivalency	---	---
EGR 260: Electric Circuits Theory I	3	Must take EGR 260 and EGR 261 to receive credit for ECE 2010: Intro to Electrical & Computer Engineering	---	---
CSC 151: Programming I	3	CS 1XXX: Computer Science 1000 Level Elective	1/3	✓
EGR 104: Principles of Electric Circuits	3	ECE 1799: Frontiers & Current Issues of Elec. & Comp. Eng.	1/3	✓
MAT 298: Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3	✓
Humanities Elective	3	See ENGR Humanities Electives Table (rec: ENG or PY course that transfers at the 2000 level)	1/3	✓
EGR 261: Electric Circuits Theory II	3	Must take EGR 260 and EGR 261 to receive credit for ECE 2010: Intro to Electrical & Computer Engineering	1/3	✓
EGR 216: Logic Design	3	ECE 2029: Introduction to Digital Circuit Design	1/3	✓
ECO 140: Macroeconomics	3	ECON 1120: Introductory Macroeconomics	1/3	✓

#MAT 290, MAT 291, and MAT 292 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024

Engineering Science Transfer - Mechanical at Middlesex to 'Mechanical' or 'Aerospace' Engineering at WPI

MCC Course	Credits	WPI Course	Units	ME	AE
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓	✓
MAT 290: Calculus I for Engineering and Science	4	#MA 1021: Calculus I	1/3	✓	✓
CHE 151: General Chemistry for Engineering and Science	4	CH 1010: Chemical Properties, Bonding, And Forces	1/3	✓	✓
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics-Mechanics	1/3	✓	✓
IDS 101: First-Year Experience and two additional IDS electives	3	EL 1XXX: 1000 Level General Elective	1/3	✓	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓	✓
MAT 291: Calculus II for Engineering and Science	4	#MA 1022: Calculus II	1/3	✓	✓
EGR 101: Introduction to Engineering	3	ES 1020: Introduction to Engineering	1/3	✓	✓
PHY 172: Physics for Engineering and Science II	4	PH 1120: General Physics-Electricity and Magnetism	1/3	✓	✓
PHY 173: Physics for Engineering and Science III	4	PH 1XXX: 1000-level Physics Elective	1/3	✓	---
MAT 292: Calculus III for Engineering and Science	4	#MA 1024: Calculus IV	1/3	✓	✓
EGR 210: Statics	3	ES 2501: Intro to Static Systems	1/3	✓	✓
ECO 140: Principles of Macroeconomics	3	ECON 1120: Introductory Macroeconomics	1/3	✓	✓
CAD 169 - Solid Modeling I	3	ES 1310: Introduction to Computer Aided Design	1/3	✓	✓
ETH 101: Ethics and Society	3	PY 2712: Social and Political Philosophy	1/3	✓	✓
MAT 298: Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3	✓	✓
Humanities Elective	3	See ENGR Humanities Electives Table (rec: ENG or PY course that transfers at the 2000 level)	1/3	✓	✓
EGR 211: Strength of Materials	3	ES 2502: Stress Analysis -or- AE 2410: Intro to Aerospace Structures	1/3	✓	✓
EGR 212: Dynamics	3	ES 2503: Intro to Dynamic Systems	1/3	✓	✓
EGR 213: Material Science for Engineers	3	ES 2001: Introduction to Material Science	1/3	✓	✓

#MAT 290, MAT 291, and MAT 292 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024

Mathematics at Middlesex
to 'Mathematical Sciences' at WPI

MCC Course	Credits	WPI Course	Units	Math
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓
MAT 290: Calculus I for Engineering and Science	4	#MA 1021: Calculus I	1/3	✓
BIO 131: General Biology I - OR - CHE 131: College Chemistry I - OR - **CHE 151: General Chemistry for Engineering & Science I (rec)**	4	BB 1101: Fundamentals of Cellular & Molecular Biotechnology EL 1XXX General Elective 1000 Level ***CH 1010: Chemical Properties, Bonding, and Forces**	1/3 1/3 1/3	--- --- ✓
Humanities Elective	3	See Humanities Elective Table	1/3	✓
IDS 101: First-Year Experience	1	No WPI Equivalency	---	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓
MAT 291: Calculus II for Engineering and Science	4	#MA 1022: Calculus II	1/3	✓
MAT 250: Discrete Math	3	MA 2201: Discrete Mathematics	1/3	✓
BIO 132: General Biology II - OR - CHE 132: College Chemistry II - OR - **CHE 152: General Chemistry for Engineering & Science II (rec)**	4	BB 1XXX: Biology 1000 level elective EL 1XXX: General Elective 1000 Level ***CH 1020: Chemical Reactions**	1/3 1/3 1/3	--- --- ✓
Behavioral Science Elective	3	See Behavioral Science Electives Table	1/3	✓
MAT 292: Calculus III for Engineering and Science	4	#MA 1024: Calculus IV	1/3	✓
MAT 295: Linear Algebra I	3	MA 2071: Matrices and Linear Algebra I	1/3	✓
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics-Mechanics	1/3	✓
CAD 169 - Solid Modeling I	3	ES 1310: Introduction to Computer Aided Design	1/3	✓
Behavioral Science Elective - OR - Social Science Elective	3	Behavioral Science Elective Table or Social Science Elective Table (rec. select course that transfers as HI designation at WPI)	1/3	✓
MAT 298: Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3	✓
MAT 296: Linear Algebra II	3	MA 2073: Matrices and Linear Algebra II	1/3	✓
PHY 172: Physics for Engineering and Science II	4	PH 1120: General Physics-Electricity and Magnetism	1/3	✓
CSC 151: Programming I	4	CS 1XXX: Computer Science 1000 Level Elective	1/3	✓

*CHM 151 and CHM 152 together are equivalent to CH 1010, CH 1020, and CH 1030 *✓

#MAT 290, MAT 291, and MAT 292 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024 ✓

Biology at Middlesex

To 'Biology' or 'Bioinformatics and Computational Biology' at WPI

MCC Course	Credits	WPI Course	Units	BBT	BCB
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓	✓
MAT 290: Calculus I for Engineering and Science	4	MA 1021: Calculus I	1/3	✓	✓
CHE 151: General Chemistry for Engineering and Science I	4	*CH 1010: Chemical Properties, Bonding, And Forces	1/3	✓	✓
BIO 131: General Biology I	3	BB 1101: Foundations in Cellular & Molecular Biotechnology	1/3	✓	✓
IDS 101: First-Year Experience	1	No WPI Equivalency	---	---	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓	✓
Behavioral Science Elective	3	See Behavioral Science Electives Table	1/3	✓	✓
BIO 132: General Biology II	3	BB 1XXX: 1000-level Biology Elective	1/3	✓	✓
CHE 152: General Chemistry for Engineering and Science II	4	*CH 1020: Chemical Reactions	1/3	✓	✓
ETH 101: Ethics and Society - OR - ETH 105: Introduction to Bioethics	3	PY 2712: Social and Political Philosophy - OR - PY 2713: Bioethics	1/3	✓	✓
CHE 251: Organic Chemistry I and Lab	4	CH 2310: Organic Chemistry I	1/3	✓	✓
PHY 151: Physics I	3	PH 1XXX: 1000-level Physics Elective	1/3	✓	✓
BIO 235 - Introduction To Microbiology -OR- BIO 252 - Principles of Cell Biology BIO 261 - Ecology	4	BB 2003: Fundamentals of Microbiology -OR- BB 2550: Cell Biology -OR- BB 2040: Principles of Ecology	1/3	✓	✓
Social Science Elective	3	Social Science Elective Table (rec. select course that transfers as HI designation at WPI)	1/3	✓	✓
CHE 252: Organic Chemistry II and Lab	4	CH 2320: Organic Chemistry II	1/3	✓	✓
PHY 152: Physics II	3	PH 1XXX: 1000-level Physics Elective	1/3	---	---
BIO 235 - Introduction To Microbiology -OR- BIO 252 - Principles of Cell Biology	3	BB 2003: Fundamentals of Microbiology -OR- BB 2550: Cell Biology	1/3	✓	✓
Humanities Elective	3	See Humanities Elective Table (rec: ENG or PY course that transfers at the 2000 level)	1/3	✓	✓
				✓	✓

**CHM 151 and CHM 152 together are equivalent to CH 1010, CH 1020, and CH 1030*

Chemistry at Middlesex
to 'Chemistry' or 'Biochemistry' at WPI

MCC Course	Credits	WPI Course	Units	Chem Degree	Biochem Degree
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓	✓
MAT 290: Calculus I for Engineering and Science	4	#MA 1021: Calculus I	1/3	✓	✓
CHE 151: General Chemistry for Engineering & Science I	4	*CH 1010: Chemical Properties, Bonding, And Forces	1/3	✓	✓
Humanities Elective	3	See Humanities Elective Table (rec: ENG or PY course that transfers at the 2000 level)	1/3	✓	✓
IDS 101: First-Year Experience	1	No WPI Equivalency	---	---	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓	✓
MAT 291: Calculus II for Engineering and Science	4	#MA 1022: Calculus II	1/3	✓	✓
CHE 152: General Chemistry for Engineering & Science II	4	*CH 1020: Chemical Reactions	1/3	✓	✓
ETH 101: Ethics and Society - OR - ETH 105: Introduction to Bioethics	3	PY 2712: Social and Political Philosophy - OR - PY 2713: Bioethics	1/3	✓	✓
Science Elective with or without Lab	3 or 4	See Chemistry Science Electives Table below	1/3	✓	✓
MAT 292: Calculus III for Engineering and Science	4	#MA 1024: Calculus IV	1/3	✓	✓
CHE 251: Organic Chemistry I and Lab	4	CH 2310: Organic Chemistry I	1/3	✓	✓
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics-Mechanics	1/3	✓	✓
Behavioral Science Elective	3	See Behavioral Science Electives Table	1/3	✓	✓
MAT 298: Differential Equations	3	MA 2051: Ordinary Differential Equations	1/3	✓	✓
PHY 172: Physics for Engineering and Science II	4	PH 1120: General Physics-Electricity and Magnetism	1/3	✓	✓
CHE 252: Organic Chemistry II and Lab	4	CH 2320: Organic Chemistry II	1/3	✓	✓
Social Science Elective	3	See Social Science Electives Table (rec. select course that transfers as HI designation at WPI)	1/3	✓	✓

**CHM 151 and CHM 152 together are equivalent to CH 1010, CH 1020, and CH 1030* ✓ ✓

#MAT 290, MAT 291, and MAT 292 combined are equivalent to MA 1021, MA 1022, MA 1023, and MA 1024 ✓ ✓

Chemistry Science Electives Table

MCC Course	Credits	WPI Course	Units
BIO 105: Basical Anatomy and Physiology	3	BB 1004: Human Biology	1/3
BIO 131: General Biology I	3	BB 1101: Foundations of Cellular and Molecular Biotechnology	1/3
BIO 132: General Biology II	3	BB 1XXX: 1000-level Biology Elective	1/3
BIO 231: Anatomy and Physiology I	4	BB 3101: Human Anatomy & Physiology: Movement and Communication	1/3
BIO 232: Anatomy and Physiology II	4	BB 3102: Human Anatomy & Physiology: Transport and Maintenance	1/3
BIO 235: Introduction to Microbiology	4	BB 2003: Fundamentals of Microbiology	1/3
BIO 252: Principles of Cell Biology	3	BB 2550: Cell Biology	1/3

******Preferences would be for the courses NOT highlighted green.*******

Computer Science – Sec. Software Development at Middlesex
to Computer Science at WPI

MCC Course	Credits	WPI Course	Units	CS
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓
CSC 151: Programming I	4	CS 1XXX: Computer Science 1000 level elective	1/3	✓
CSC 156: Operating Systems Basics and Security	3	CS 2XXX: Computer Science 2000 level elective	1/3	✓
ETH 101: Ethics and Society	3	PY 2712: Social and Political Philosophy	1/3	✓
Social Science Elective	3	See MCC HST courses in Social Science Elective Table	1/3	✓
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓
CSC 252: Programming II	4	CS 2102: Object-Oriented Design Concepts	1/3	✓
CSC 188: Introduction to Computer Security	3	CS 2XXX: Computer Science 2000 level elective	1/3	✓
SOC 101: Introduction to Sociology PSY 101: Introduction to Psychology	3	SOC 1202: Introduction to Sociology and Cultural Diversity PSY 1400: Introduction to Psychological Science	1/3 1/3	✓
CSC 255 - Programming III	4	CS 2XXX: Computer Science 2000 level elective	1/3	---
CSC 202 - Computer Organization/Assembly Language	4	CS 2011: Intro.to Machine Organization & Assembly Language	1/3	✓
MAT 290 - Calculus I for Engineering and Science	4	MA 1021: Calculus I	1/3	✓
BIO 131: General Biology I - OR - CHE 131: College Chemistry I - OR - **CHE 151: General Chemistry for Engineering & Science I (rec)**	4	BB 1101: Fundamentals of Cellular and Molecular Biotechnology EL 1XXX General Elective 1000 Level ***CH 1010: Chemical Properties, Bonding, and Forces**	1/3 1/3 1/3	✓ --- ✓
CSC 289: Secure Programming	3	EL 1XXX: General Elective 1000 Level	1/3	---
CSC 258: Data Structures	4	CS 2223: Algorithms	1/3	✓
CSC 290: Information Assurance	3	CS 2XXX: Computer Science 2000 level elective	1/3	---
BIO 132: General Biology II - OR - CHE 132: College Chemistry II - OR - **CHE 152: General Chemistry for Engineering & Science II (rec)**	4	BB 1XXX: Biology 1000 level elective EL 1XXX: General Elective 1000 Level ***CH 1020: Chemical Reactions**	1/3 1/3 1/3	--- --- ✓
MAT 291: Calculus II for Engineering and Science	4	MA 1022: Calculus II	1/3	✓
				*✓

** CHE151 and CHE 152 combined are equivalent to CH 1010, CH 1020, and CH 1030*

Computer Science at Middlesex

To 'Computer Science', 'Data Science', or 'Bioinformatics and Computational Biology' at WPI

MCC Course	Credits	WPI Course	Units	CS	DS	BCB
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓	✓	✓
CSC 151: Programming I	4	CS 1XXX: Computer Science 1000 Level Elective	1/3	✓	✓	✓
CSC 156: Operating Systems Basics and Security	3	CS 2XXX: Computer Science 2000 Level Elective	1/3	✓	✓	✓
ETH 103: Technology and Society	3	PY 2719: Philosophy of Science	1/3	✓	✓	✓
Behavioral Science Elective	3	See Behavioral Science Electives Table	1/3	✓	✓	✓
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓	✓	✓
CSC 252: Programming II	4	CS 2102: Object-Oriented Design Concepts	1/3	✓	✓	✓
COM 103: Public Speaking & Professional Presentations	3	HU 1XXX: Humanities 1000 Level Elective	1/3	✓	✓	✓
MAT 290: Calculus I for Engineering and Science	4	MA 1021: Calculus I	1/3	✓	✓	✓
CSC 255 - Programming III	4	CS 2XXX: Computer Science 2000 Level Elective	1/3	✓	✓	✓
CSC 202: Computer Organization/Assembly Language	4	CS 2011: Intro to Machine Organization & Assembly Languages	1/3	✓	---	?
MAT 291: Calculus II for Engineering and Science	4	MA 1022: Calculus II	1/3	✓	✓	✓
BIO 131: General Biology I - OR - **CHE 151: Gen Chem for Engineering & Science I (rec) -OR-** **PHY 171: Physics for Engineering and Science I (rec)**	4	BB 1101: Fundamentals of Cellular and Molecular Biotechnology ***CH 1010: Chemical Properties, Bonding, and Forces** **PH 1110: General Physics-Mechanics**	1/3	✓	✓	✓
CSC 258: Data Structures	4	CS 2223: Algorithms	1/3	✓	✓	✓
BIO 132: General Biology II - OR - **CHE 152: Gen Chem for Engineering & Science II (rec) -OR-** **PHY 172: Physics for Engineering and Science II (rec)**	4	BB 21XXX: Biology 1000 level elective ***CH 1020: Chemical Reactions** **PH 1120: General Physics-Electricity and Magnetism**	1/3	✓	✓	✓
MAT 250: Discrete Math **MAT 295: Linear Algebra (rec)** BIO 131: General Biology I CHE 151: General Chemistry I PHY 172: Physics for Engineering and Science II	3 or 4	MA 2201: Discrete Mathematics **MA 2071: Linear Algebra** BB 1101: Foundations of Cellular & Molecular Biotech -OR- CH 1010: Chemical Properties, Bonding, And Forces PH 1110: General Physics-Mechanics	1/3	✓	✓	✓
Social Science Elective	3	See Social Science Electives Table (rec. select course that transfers as HI designation at WPI)	1/3	✓	✓	✓

? If you transfer to WPI, discuss with your CS Faculty Advisor your CSC courses to see if this will count towards a lower level requirement (because of the CS 1XXX and CS 2XXX electives)

Note that CS 1XXX and CS 2XXX are going as free electives, which can be any course at WPI (including CS 2011, which is marked as --- for Data Science)

Business Administration Transfer at Middlesex
to 'Business' at WPI***

Middlesex Community College Course	Credits	Worcester Polytechnic Institute Equivalency	Units	Bus Degree
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3	✓
BUS 110: Introduction To Business - OR - BUS 130: Introduction to Entrepreneurship	3	BUS 2001: WPI Means Business - OR - ETR 1100: Engineering Innovation And Entrepreneurship	1/3	✓
CAP 101: Computer Applications	3	EL 1XXX: General Elective 1000 Level	1/3	✓
Recommended: PSY 101: Introduction to Psychology	3	PSY 1400: Introduction to Psychological Sciences	1/3	✓
MAT 177: Statistics	3	MA 2611: Applied Statistics I	1/3	✓
IDS 101: First-Year Experience	1		---	---
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3	✓
BUS 221: Financial Accounting	4	ACC 2060: Financial Statements for Decision Making	1/3	✓
General Education Humanities Elective	3	See General Education Humanities Elective Table		✓
Interdisciplinary Elective (Rec: IDS 131)	1		---	---
Interdisciplinary Elective	1	IDS 101: First-Year Experience and two additional IDS electives is equivalent to EL 1XXX: General Elective 1000 Level	*1/3*	✓
Choose 1 of the Following: BUS 210: Principles of Management - OR - BUS 222: Introduction to Finance **(REC)** - OR - BUS 224: Intermediate Accounting I - OR - BUS 240: Principles of Marketing **(REC)** - OR -	3	BUS 2XXX: Business 2000 Level Elective - OR – FIN 2070: Fundamentals of Finance - OR – ACC 2XXX: Accounting 2000 Level Elective - OR – MKT 1100: Principles of Marketing	1/3	✓
ECO 140: Principles Of Macroeconomics		ECON 1120: Introduction to Macroeconomics	1/3	✓
BUS 223: Managerial Accounting		ACC 2101: Management Accounting	1/3	✓
General Education Humanities Elective	3	See General Education Humanities Elective Table	1/3	✓
MAT 182: Precalculus for Business and Social Science		No WPI Equivalency	---	---
General Education Laboratory Science Elective	4	See Laboratory Science Electives Table	1/3	✓
General Education Humanities Elective	3	See General Education Humanities Elective Table	1/3	✓
ECO 150: Principles Of Microeconomics	3	ECON 1110: Introduction to Microeconomics	1/3	✓
LGL 102: Business Law	3	BUS 2020: The Legal Environment of Business Decisions	1/3	✓
Choose 1 of the Following: BUS 210: Principles of Management - OR - BUS 222: Introduction to Finance - OR - BUS 224: Intermediate Accounting I - OR - BUS 240: Principles of Marketing - OR -	3	BUS 2XXX: Business 2000 Level Elective - OR – FIN 2070: Fundamentals of Finance - OR – ACC 2XXX: Accounting 2000 Level Elective - OR – MKT 1100: Principles of Marketing	1/3	✓
General Education Science Elective	3-4	See General Education Science Elective Table	1/3	✓

Note that the WPI Business degree is an accredited program. Therefore, transfer credit related to business disciplines is limited to less than half of the WPI Business degree program requirements. After transferring to WPI, your faculty advisor in the School of Business will help you navigate this to meet the degree and accreditation requirements.

**** Pre-calculus or Calculus I is required for transfer to WPI.*

Middlesex Humanities Electives with WPI Course Equivalencies

MCC Course	Credits	WPI Course	Units

ART 101: Art Appreciation	3	AR 1XXX: Art 1000 Level Elective	1/3
ART 106: Art History After 1500	3	AR 1111: Introduction to Art History	1/3
ART 121: Drawing I	3	AR 2202: Figure Drawing	1/3
ART 144: Digital Photography I	3	AR 1101: Digital Imaging and Computer Art	1/3
COM 103: Public Speaking and Professional Presentations	3	HU 1XXX: Humanities 1000 Level Elective	1/3
ENG 140: Early World Literature	3	EN 2281: World Literatures	1/3
ENG 161: Modern American Literature	3	EN 1251: Introduction to Literature	1/3
ETH 103: Technology and Society	3	PY 2719: Philosophy of Science	1/3
ETH 105: Introduction to Bioethics	3	PY 2713: Bioethics	1/3
LAN 152: Spanish 2 and Culture	3	EL 1XXX: 1000-level general elective	1/3

ENGR Humanities electives

ART 101, ART 105, ART 106, COM 103, PHL 101, ENG 113, ENG 119, ENG 160, ENG 161, ENG 185 – see table above for WPI Course equivalencies

******Preferences would be for the courses NOT highlighted green.*******

Middlesex Behavioral Science Electives with WPI Course Equivalencies

MCC Course	Credits	WPI Course	Units
PSY 101: Introduction to Psychology	3	PSY 1400: Introduction to Psychological Sciences	1/3
SOC 101: Introduction to Sociology	3	SOC 1202: Introduction to Sociology and Cultural Diversity	1/3
SOC 134: The Portugal Experience	3	No WPI Equivalency	---
ECO 140: Principles to Macroeconomics	3	ECON 1120: Introductory Macroeconomics	1/3
ECO 150: Principles to Microeconomics	3	ECON 1110: Introductory Microeconomics	1/3

Middlesex Social Science Electives with WPI Course Equivalencies

MCC Course	Credits	WPI Course	Units
ECO 150: Principles of Microeconomics	3	ECON 1110: Introduction to Microeconomics	1/3
ECO 140: Principles of Macroeconomics	3	ECON 1120: Introduction to Macroeconomics	1/3
GOV 120: American Government	3	GOV 1301: U.S. Government	1/3
HST 121: U.S. History Through 1876	3	HI 2313: American History, 1789-1877	1/3
HST 122: U.S. History After 1876	3	HI 1XXX: History 1000 Level Elective	1/3
HST 130: World Civilization Before 1500	3	INTL 1100: Introduction to International and Global Studies	1/3
HST 131: World Civilization After 1500	3	HU 1XXX: Humanities and Arts Elective	1/3
HST 132: Contemporary Latin American History	3	HI 1345: Atlantic Worlds	1/3

Middlesex Lab Science Electives with WPI Course Equivalencies

Middlesex Community College Course	Credits	Worcester Polytechnic Institute Equivalency	Units
BIO 120: Introduction to Biology	4	BB 1XXX: Biology Elective	1/3
BIO 132: General Biology II	4	BB 1XXX: Biology Elective	1/3
BIO 231: Anatomy and Physiology I	4	BB 3101: Human Anatomy & Physiology: Movement and Communication	1/3
BIO 232: Anatomy and Physiology II	4	BB 3102: Human Anatomy & Physiology: Transport and Maintenance	1/3
BIO 235: Introduction to Microbiology	4	BB 2003: Fundamentals of Microbiology	1/3
BIO 252: Principles of Cell Biology	4	BB 2550: Cell Biology	1/3
CHE 121: Introduction to Chemistry	4	No WPI Equivalency	1/3
CHE 131: College Chemistry I	4	EL 1XXX: General Elective 1000 Level	1/3
CHE 132: College Chemistry II	4	EL 1XXX: General Elective 1000 Level	1/3
CHE 151: General Chemistry for Engineering and Science I	4	CH 1010: Chemical Properties, Bonding, and Forces	1/3
CHE 152: General Chemistry for Engineering and Science II	4	CH 1030: Kinetics, Equilibrium and Thermodynamics	1/3
PHY 150: Astronomy with Lab	4	PH 1XXX: Physics 1000 Level Elective	1/3
PHY 151: Physics I	4	PH 1XXX: Physics 1000 Level Elective	1/3
PHY 152: Physics II	4	PH 1XXX: Physics 1000 Level Elective	1/3
PHY 171: Physics for Engineering and Science I	4	PH 1110: General Physics—Mechanics	1/3
PHY 172: Physics for Engineering and Science II	4	PH 1120: General Physics—Electricity and Magnetism	1/3
PHY 173: Physics for Engineering and Science III	4	PH 1XXX: Physics 1000 Level Elective	1/3
SCI 130: Forensic Science	4	EL 1XXX: General Elective 1000 Level	1/3

Middlesex Honors Program Courses with WPI Course Equivalencies

MCC Course	Credits	WPI Course	Units
SOC 294: Globalization: Honors Seminar	3	SS 1XXX: Social Science 1000 Level Elective	1/3
SOC 299: Postcolonial and Diaspora Studies: Honors Seminar	3	SS 1XXX: Social Science 1000 Level Elective	1/3
HST/HUM/SOC 290 World Cultures	3	HI 1XXX: History 1000 Level Elective	1/3
HST/COM 292 U.S. History through Film	3	HU 2251: Introduction to Film Studies	1/3
CHE 251: Organic Chemistry I and Lab	4	CH 2310: Organic Chemistry I	1/3
MAT 177: Statistics	3	MA 2611: Applied Statistics	1/3
ENG 101: English Composition I	3	WR 1010: Elements of Writing	1/3
ENG 102: English Composition II	3	WR 1020: Introduction to Rhetoric	1/3
ENG 140: Early World Literature	3	EN 2281: World Literatures	1/3
ENG 141: Modern World Literature	3	EN 2281: World Literatures	1/3
HUM 104: Myths	3	HU 1XXX: Humanities 1000 Level Elective	1/3
SOC/HUM/COM 143: Race, Class, and Gender	3	Requested	
PSY 101: Introduction to Psychology	3	PSY 1400: Introduction to Psychological Sciences	1/3

You can only receive transfer credit for one equivalency (e.g., ENG 140 and ENG 141 are both equivalent to EN 2281, you will receive credit towards your WPI degree requirement one time for EN 2281).