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Automation Engineer Technology

Degree Pathway

An Associates of Applied Science Degree emphasizes preparation in the applied arts and sciences for careers, typically at the technical or semi-professional level. This degree totals 60 credits. Consult with an advisor for more information.

(T) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Required Courses			
Course ID	Course Title	Credit Hours	Notes
AE100	AC/DC Circuits	4.00	Spring 2026, Fall 2026
AE101	Digital Multimeter Principles	1.00	Spring 2026, Fall 2026
AE150	Programmable Logic Controls (PLCs)	3.00	Spring 2026, Fall 2026 Prereq: AE100 AC/DC Circuits.
AE155	Electrical Maintenance	3.00	Spring 2026, Fall 2026 Prereq: AE100 AC/DC Circuits.
AE200	Variable Frequency Drives and Electric Motors	3.00	Spring 2026, Fall 2026 Prereq: ME110 Fundamentals of Motor Controls.
AE202	Actuator/Sensor Systems	3.00	Spring 2026, Fall 2026 Prereq: AE155 Electrical Maintenance.
AE205	Intermediate Programmable Logic Controllers	3.00	Spring 2026, Fall 2026 Prereq: AE150 Programmable Logic Controllers.
AE250	Distributed/Integrated Control Systems	3.00	Spring 2026 Prereq: AE200 Variable Frequency Drives & Electric Motors, or AE205 Industrial PLCs.
AE252	Control Systems Development	3.00	Spring 2026, Fall 2026 Prereq: AE200 Variable Frequency Drives & Electric Motors, or AE205 Industrial PLCs.
AE255	Industrial Robotics	3.00	Spring 2026 Prereq: AE150 Programmable Logic Controllers.
EE117	Conduit Fabrication	1.00	Spring 2026, Fall 2026
EE126	NEC Codeology	1.00	Spring 2026, Fall 2026
IS182	Cisco CCNA I/Networking I	3.00	Spring 2026, Summer 2026, Fall 2026
ME106	Industrial Fluid Power	3.00	Spring 2026, Fall 2026
ME110	Fundamentals of Motor Controls	3.00	Spring 2026, Fall 2026 Prereq: AE100 AC/DC Circuits.
TR121	General Industrial Safety/OSHA10	1.00	Fall 2026
Electives			
Course ID	Course Title	Credit Hours	Notes
AET Math Options		3.00	
MA106	College Algebra T	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher.
MA117	Contemporary Math T	3.00	Spring 2026, Summer 2026, Fall 2026
★ TR100	Technical Math	3.00	Spring 2026, Fall 2026
Automation Engineer Technology Contextual Electives		4.00	

AE105	Industrial Wiring	3.00	Spring 2026
AE256	Servo Motion Control	3.00	Spring 2026 Prereq: AE200 Variable Frequency Drives & Electric Motors, and AE205 Industrial PLCs.
AM101	Power Plant Theory	4.00	
AM102	Electrical I	3.00	Fall 2026
AM103	Electrical II	4.00	Spring 2026
AM104	Brakes I	3.00	Spring 2026, Fall 2026
AM105	Brakes II	2.00	Spring 2026, Fall 2026
AM201	Suspension & Steering I	3.00	Fall 2026
AM202	Engine Performance I	3.00	Spring 2026, Fall 2026
AM203	Drive Train	4.00	Spring 2026
AM204	Heating and Air Conditioning Theory	4.00	Spring 2026
AM205	Suspension and Steering II	1.00	Fall 2026
AM206	Engine Performance II	2.00	Spring 2026
BU105	Introduction to Business ▶	3.00	Spring 2026, Summer 2026, Fall 2026
BU105H	Honors Introduction to Business ▶	3.00	
DR100	Computer Aided Drafting I	3.00	Spring 2026, Summer 2026, Fall 2026
DR101	Technical Drafting	3.00	Spring 2026, Fall 2026
DR102	Machine Drafting	5.00	Spring 2026 Prereq: DR100 Computer Aided Drafting I.
DR102H	Honors Machine Drafting	5.00	Prereq: DR100 Computer Aided Drafting I.
DR102L	Machine Drafting Lab	0.00	
DR107	Construction Drafting	3.00	Spring 2026, Fall 2026 Prereq: DR100 Computer Aided Drafting I.
DR119	Parametric Modeling I: Autodesk Inventor	3.00	Spring 2026, Fall 2026
DR211	Computer Aided Drafting II	3.00	Spring 2026, Fall 2026 Prereq: DR100 Computer Aided Drafting I.
DR212	Architectural Drafting I	3.00	Spring 2026, Fall 2026
DR213	Architectural Drafting II	3.00	Spring 2026, Fall 2026 Prereq: DR212 Architectural Drafting I.
DR214	Advanced CAD Applications	3.00	
DR215	Civil Drafting	3.00	Spring 2026 Prereq: DR100 Computer Aided Drafting I.
DR216	Computer Drafting Internship	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: DR119 Parametric Modeling I: Autodesk Inventor, or Departmental Consent, and DR212 Architectural Drafting I.
DR219	Parametric Modeling II: Autodesk Inventor	3.00	Fall 2026 Prereq: DR119 Parametric Modeling I: Autodesk Inventor.
DR220	Computer Drafting Capstone	3.00	Spring 2026, Fall 2026 Prereq: DR119 Parametric Modeling I: Autodesk Inventor, or Departmental Consent, and DR212 Architectural Drafting I.
IS103	Microcomputer Literacy	2.00	Spring 2026, Summer 2026
IS104	Microcomputer Applications ▶	3.00	Spring 2026, Summer 2026, Fall 2026
MC101	Introduction to Machine Technology	3.00	
MC104	Machine Technology Math	2.00	Spring 2026, Fall 2026
MC106	Basic Manufacturing Skills	8.00	
MC110	Bench Work	1.00	Fall 2026
MC111	Print Reading	3.00	Spring 2026, Fall 2026
MC112	Quality Control and Inspection	1.00	Spring 2026, Fall 2026
MC113	Metallurgy	1.00	Spring 2026 Prereq: MC110 BenchWork with a Grade of C or higher, and MC115 Machining I with a Grade of C or higher.

MC114	Machine Tool Processes	1.00	Spring 2026
MC115	Machining I	3.00	Fall 2026
MC116	Machining II	3.00	Spring 2026, Fall 2026 Prereq: MC110 BenchWork with a Grade of C or higher, and MC115 Machining I with a Grade of C or higher.
MC117	CNC Operations	3.00	Fall 2026 Prereq: MC115 Machining I with a Grade of C or higher, or Departmental Consent.
MC118	Safety (OSHA)	1.00	
MC202	Inspection and Quality Control	3.00	
MC204	Machine Practices I	3.00	Fall 2026 Prereq: Departmental Consent.
MC205	Machine Practices II	3.00	Spring 2026 Prereq: Departmental Consent, or MC204 Machine Practices I w/Grade of C or higher.
ME112	Heating System Fundamentals	3.00	Spring 2026, Fall 2026
ME114	Renewable Energy Technology	3.00	
ME116	Commercial Refrigeration	4.00	Spring 2026
ME117	Commercial Heating and Air Conditioning	4.00	Spring 2026 Prereq: ME115 HVAC Fundamentals, or ME116 Commercial Refrigeration.
ME118	Renewable Energy Technology Systems Analysis	4.00	Prereq: ME114 Renewable Energy Technology, and AE155 Electrical Maintenance, and ME115 HVAC Fundamentals.
ME119	Solar PV Fundamentals	3.00	Spring 2026
ME122	Solar PV Intermediate	3.00	Prereq: ME119 Solar PV Fundamentals.
ME124	Renewable Energy Technology Maintenance	4.00	Prereq: ME114 Renewable Energy Technology, and AE155 Electrical Maintenance, and ME115 HVAC Fundamentals.
ME125	Engineering Technology Internship	3.00	
★ ME129	Mechanical Maintenance Skills	3.00	Spring 2026, Fall 2026
ME131	EPA 608	1.00	Fall 2026
ME132	HVAC Load Calculations	1.00	Fall 2026
ME133	HVAC Duct Sizing	1.00	Fall 2026
ME134	HVAC Code Requirements	1.00	Fall 2026
ME136	Solar PV Advanced	3.00	Prereq: ME119 Solar PV Fundamentals, and ME141 Solar Battery Fundamentals, and ME122 Solar PV Intermediate.
ME140	Low Pressure Boilers	3.00	Spring 2026
ME141	Solar Battery Fundamentals	3.00	Prereq: ME119 Solar PV Fundamentals.
ME142	Solar Battery Intermediate	3.00	Prereq: ME119 Solar PV Fundamentals, and ME141 Solar Battery Fundamentals, and ME122 Solar PV Intermediate.
TR120	Work Ethics	2.00	Spring 2026, Fall 2026
WE100	Basic Welding	3.00	Spring 2026, Fall 2026
WE101	Welding Safety	1.00	Fall 2026
WE102	Welding Blueprint Reading	3.00	Spring 2026, Fall 2026
WE104	Shielded Metal Arc Welding	3.00	Fall 2026
WE105	Shielded Metal Arc Welding II	3.00	Spring 2026, Fall 2026 Prereq: WE104 SMAW w/Grade of C or Higher, or Departmental Consent.
WE106	Cutting Processes for Welding	2.00	Fall 2026
WE110	Gas Metal Arc Welding	3.00	Spring 2026, Fall 2026
WE111	Gas Metal Arc Welding II	3.00	Spring 2026, Fall 2026 Prereq: WE110 Gas Metal Arc Welding w/Grade of C or Higher.
WE112	Gas Tungsten Arc Welding	3.00	Spring 2026, Fall 2026
WE113	Gas Tungsten Arc Welding II	3.00	Spring 2026 Prereq: WE112 GTAW w/Grade of C or Higher.
WE128	Welding Metallurgy	2.00	Spring 2026, Fall 2026
WE209	Welding Fabrication Processes	4.00	Fall 2026

			Prereq: Departmental Consent.
General Education Options		6.00	
AR101	Art Appreciation ▾	3.00	Spring 2026, Summer 2026, Fall 2026
AR104	Art History: Paleolithic to Medieval ▾	3.00	Fall 2026
AR105	Art History: Renaissance to Modern ▾	3.00	Spring 2026
AR106	Art in the Elementary Classroom ▾	3.00	Spring 2026, Fall 2026
AR110	Drawing I ▾	3.00	Fall 2026
BI100	Basic Concepts for Allied Health Studies	1.00	Spring 2026, Summer 2026, Fall 2026
BI101	General Biology ▾	4.00	Spring 2026, Summer 2026, Fall 2026
BI102	Ecology of Environmental Problems ▾	3.00	Spring 2026
BI103	Human Anatomy and Physiology ▾	6.00	Spring 2026, Summer 2026, Fall 2026 Prereq: BI100 or BI101 or BI104 or BI105 or BI112 w/Grade of C.
BI104	Biology I ▾	5.00	Spring 2026, Fall 2026
BI105	Biology II ▾	5.00	Spring 2026 Prereq: BI101 General Biology, or Departmental Consent, or BI104 Biology I.
BI112	General Microbiology ▾	4.00	Spring 2026, Summer 2026, Fall 2026 Prereq: (BI101,BI103,BI104,BI105)BI107 is not a valid prereq code.
BI115	Basic Radiation Biology	2.00	Spring 2026 Prereq: BI103 Human A&P.
BU105	Introduction to Business ▾	3.00	Spring 2026, Summer 2026, Fall 2026
BU107	Personal Finance ▾	3.00	Spring 2026, Summer 2026, Fall 2026
BU108	Business Mathematics	3.00	Spring 2026, Summer 2026, Fall 2026
BU109	Business Communications ▾	3.00	Spring 2026, Summer 2026, Fall 2026
BU118	Introduction to Leadership ▾	3.00	Spring 2026, Fall 2026
CH101	General Chemistry ▾	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics.
CH105	Chemistry I ▾	5.00	Spring 2026, Fall 2026 Prereq: ACT Math Score of 21 or higher, or MA105 or higher math, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or Accuplacer Math Score of 81+.
CH106	Chemistry II ▾	5.00	Spring 2026 Prereq: CH105 Chemistry I with a C or Higher.
CH108	Principles of Organic and Biochemistry ▾	5.00	Fall 2026 Prereq: CH105 Chemistry I, or Departmental Consent.
CH201	Organic Chemistry I ▾	5.00	Fall 2026 Prereq: CH106 Chemistry II.
CH202	Organic Chemistry II ▾	5.00	Spring 2026 Prereq: CH201 Organic Chemistry I.
EC100	Macroeconomics ▾	3.00	Spring 2026, Summer 2026, Fall 2026
EC101	Microeconomics ▾	3.00	Spring 2026, Summer 2026, Fall 2026
ED105	Success Seminar/College Orientation	1.00	Spring 2026, Summer 2026, Fall 2026
ED201	Introduction to Education ▾	3.00	Spring 2026, Fall 2026 Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
ED201L	Introduction to Education Practicum ▾	1.00	Spring 2026, Fall 2026 Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
EN101	English Composition IA ▾	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.0, or Accu NG Writing Score 255+ & Accu NG Reading Score 255+, and ACT Reading Score of 18 or above, or ACT English Score of 18 or above.
EN102	English Composition II ▾	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN101H English Comp IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN107	Business English Grammar & Composition	3.00	Spring 2026, Fall 2026
EN108	Career and Technical Writing	3.00	Spring 2026, Fall 2026
EN120	Children's Literature ▾	3.00	Spring 2026, Fall 2026

EN121	World Mythology	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN128	Introduction to Creative Writing ▶	3.00	Spring 2026, Fall 2026
EN201	Introduction to Literature ▶	3.00	Summer 2026, Fall 2026 Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher.
EN202	British Literature I	3.00	Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN203	British Literature II	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN204	American Literature I ▶	3.00	Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN205	American Literature II ▶	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN207	Introduction to Shakespeare	3.00	Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN214	Introduction to Cultural Studies: Fairy Tales	3.00	Spring 2026, Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
FR101	Elementary French I ▶	5.00	
GE101	World Geography ▶	3.00	Spring 2026, Summer 2026, Fall 2026
GO100	American Government ▶	3.00	Spring 2026, Summer 2026, Fall 2026
GO101	State and Local Government ▶	3.00	
GO102	International Relations ▶	3.00	Spring 2026
GO110	Introduction to Political Science ▶	3.00	Fall 2026
GO110H	Honors Introduction to Political Science ▶	3.00	Fall 2026
HI101	American History 1492-1865 ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI102	American History 1865-Present ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI103	World History to 1600 ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI104	World History Since 1600 ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI122	Film History of World War II	3.00	Spring 2026
HI201	Topics in History	3.00	
IS103	Microcomputer Literacy	2.00	Spring 2026, Summer 2026
IS104	Microcomputer Applications ▶	3.00	Spring 2026, Summer 2026, Fall 2026
JL101	Introduction to Mass Communications ▶	3.00	Spring 2026, Summer 2026, Fall 2026
LE101	Introduction to Criminal Justice ▶	3.00	Spring 2026, Fall 2026
MA106	College Algebra ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher.
MA107	Plane Trigonometry ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36.
MA108	Elements of Statistics ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher.
MA110	Calculus ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36, or MA109 Pre-Calculus Math with a grade of C or higher.
MA111	Analytical Geometry and Calculus I ▶	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA107 Plane Trigonometry with a grade of C or higher, or ACT Math Score of 25 to 36, or MA109 Pre-Calculus Math with a grade of C or higher.
MA113	Analytical Geometry and Calculus II ▶	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA111 with a grade of C or higher.
MA117	Contemporary Math ▶	3.00	Spring 2026, Summer 2026, Fall 2026
MA201	Analytical Geometry and Calculus III	5.00	Summer 2026, Fall 2026 Prereq: MA113 with a grade of C or higher.

MA206	Differential Equations ▶	3.00	Spring 2026 Prereq: MA113 with a grade of C or higher.
MU101	Music Appreciation ▶	3.00	Spring 2026, Summer 2026, Fall 2026
MU106	Music Theory I ▶	3.00	Fall 2026
MU107	Music Theory II ▶	3.00	Spring 2026 Prereq: MU106 Music Theory I.
MU127	Introduction To Jazz/Jazz Rock	3.00	Spring 2026, Fall 2026
MU206	Music Theory III	3.00	Fall 2026 Prereq: MU107 Music Theory II.
MU207	Music Theory IV	3.00	Spring 2026 Prereq: MU206 Music Theory III.
PE105	Personal and Community Health ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PE122	Rhythms I	2.00	Fall 2026
PE123	Rhythms II	2.00	Spring 2026
PE126	Conditioning & Fitness Concepts I	1.00	Spring 2026, Summer 2026, Fall 2026
PE127	Conditioning & Fitness Concepts II	1.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PE126 Conditioning & Fitness Concepts I.
PE173	Fitness for Life	1.00	Spring 2026, Summer 2026, Fall 2026
PL101	Introduction to Philosophy ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PL103	Logic and Critical Thinking ▶	3.00	Spring 2026, Fall 2026
PL104	Ethics ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PL105	Death and Dying	3.00	Spring 2026, Summer 2026, Fall 2026
PS100	General Psychology ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PS101	Human Relations	3.00	Spring 2026, Summer 2026, Fall 2026
PS102	Human Growth and Development ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PS100 General Psychology.
PS201	Psychology of Personality	3.00	Spring 2026, Fall 2026 Prereq: PS100 General Psychology with grade of C or higher.
PS202	Abnormal Psychology	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PS100 General Psychology.
PY102	Weather and Climate	3.00	Spring 2026
PY103	Physical Geology ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PY104L	Physical Geology Lab ▶	1.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PY103 Physical Geology.
PY110	Physical Science ▶	5.00	Spring 2026, Fall 2026
PY112	General Physics I ▶	5.00	Fall 2026 Prereq: MA106 College Algebra or higher math.
PY113	General Physics II ▶	5.00	Spring 2026 Prereq: PY112 Gen Physics I.
PY201	Engineering Physics I ▶	5.00	Fall 2026 Prereq: MA111 Analytical Geometry & Calculus I, or MA112H Honors Analytical Geometry & Calculus.
PY202	Engineering Physics II ▶	5.00	Spring 2026 Prereq: PY201 Eng Phys I with grade of C or better.
RE101	New Testament Literature ▶	3.00	Spring 2026, Fall 2026
RE102	Old Testament Literature ▶	3.00	Fall 2026
RE106	Introduction to World Religions ▶	3.00	Spring 2026
SH101	Public Speaking ▶	3.00	Spring 2026, Summer 2026, Fall 2026
SH103	Oral Interpretation	3.00	Spring 2026
SH122	Voice and Diction ▶	3.00	
SH210	Interpersonal Communication ▶	3.00	Spring 2026, Summer 2026, Fall 2026
SO100	Fundamentals of Sociology ▶	3.00	Spring 2026, Summer 2026, Fall 2026
SO101	Marriage and Family ▶	3.00	Spring 2026, Summer 2026, Fall 2026

SO103	Stress Management	1.00	Spring 2026, Summer 2026, Fall 2026
SO104	Assertiveness Training	2.00	Spring 2026, Summer 2026, Fall 2026
SO111	Cultural Anthropology †	3.00	Spring 2026, Summer 2026, Fall 2026
SO113	Cultural Diversity †	3.00	Spring 2026, Fall 2026
SO122	Introduction to Social Work †	3.00	Spring 2026, Fall 2026
SO201	Social Problems †	3.00	Spring 2026 Prereq: SO100 Fundamentals of Sociology.
SP100	Workplace Spanish	2.00	
SP101	Elementary Spanish I †	5.00	Spring 2026, Summer 2026, Fall 2026
SP102	Elementary Spanish II †	5.00	Spring 2026, Fall 2026 Prereq: SP101 Elementary Spanish I.
TH115	Theatre Appreciation †	3.00	Spring 2026, Fall 2026
TH116	Acting I †	3.00	Fall 2026
TH118	Stagecraft †	3.00	Fall 2026
TH119	Stage Makeup	3.00	Fall 2026
TH121	Acting II †	3.00	Fall 2026 Prereq: TH116 Acting I with a grade of C or better.
TH122	Voice and Diction †	3.00	
TH123	Theatre Practicum I †	1.00	Spring 2026, Fall 2026
TR100	Technical Math	3.00	Spring 2026, Fall 2026
TR120	Work Ethics	2.00	Spring 2026, Fall 2026
SH101 Public Speaking OR SH210 Interpersonal Communication		3.00	
SH101	Public Speaking †	3.00	Spring 2026, Summer 2026, Fall 2026
★ SH210	Interpersonal Communication †	3.00	Spring 2026, Summer 2026, Fall 2026
Written Communications Options for AET AAS		3.00	
BU109	Business Communications †	3.00	Spring 2026, Summer 2026, Fall 2026
EN101	English Composition IA †	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.0, or Accu NG Writing Score 255+ & Accu NG Reading Score 255+, and ACT Reading Score of 18 or above, or ACT English Score of 18 or above.
★ EN108	Career and Technical Writing	3.00	Spring 2026, Fall 2026

Total Credits: 60.00