

COMPUTER SCIENCE (AST)

Program Codes: AS.TCOMPSCIESWO, AS.TCOMPSCIOSPSUO

The Computer Science Major Transfer Map (MTM) outlines Oregon community college coursework to complete in order to transfer seamlessly to any Oregon four-year public university to earn a Bachelor of Science (B.S.) in computer science. The Computer Science MTM is intended for students who know they want to transfer and earn a B.S. in computer science, but who are unsure of their intended transfer destination when they begin their community college studies. Students should work with their community college advisor to ensure they properly fulfill the requirements of this Computer Science MTM.

Requirements

Complete 90 credits from the following:

FOUNDATIONAL SKILLS

Writing

- 2 courses
- Information literacy will be included in the Writing requirement

Code	Title	Credits
EOU, SOU, or WOU		
WR-121Z	Composition I	4
WR-122Z	Composition II	4
OSU, PSU, or UO		
WR-121Z	Composition I	4
WR-227Z	Technical Writing	4

Communications

- 1 course

Code	Title	Credits
COMM-111Z	Public Speaking	4

Mathematics

- 2-4 courses

Code	Title	Credits
EOU, SOU, or WOU		
MTH-251	Calculus I	5
MTH-252	Calculus II	5
OSU, PSU, or UO		
MTH-251	Calculus I	5
MTH-252	Calculus II	5
CS-250	Discrete Structures I	4
CS-251	Discrete Structures II	4

General Education Distribution Areas

Arts & Letters

- 2 courses
- Each course must be at least 3 credits

Arts & Letters Course List

Code	Title	Credits
ART-101	Art Appreciation	3
ART-115	Basic Design: 2-Dimensional Design	4
ART-117	Basic Design: 3-Dimensional Composition	4
ART-131	Introduction to Drawing	4
ART-204	History of Art/Ancient Through Medieval	4
ART-205	History of Art/Romanesque Through Baroque	4
ART-206	History of Art/Enlightenment Through Contemporary	4
ART-232	Life Drawing (Figure Emphasis)	4
ART-233	Drawing for Comics	4
ART-250	Ceramics/Beginning	4
ART-251	Ceramics/Hand-Building I	4
ART-252	Ceramics/Wheel-Throwing I	4
ART-253	Ceramics/Intermediate	4
ART-254	Ceramics/Hand-Building II	4
ART-255	Ceramics/Wheel-Throwing II	4
ART-257	Metalsmithing/Jewelry	4
ART-281	Painting: Still Life/Beginning	4
ART-282	Painting: The Figure/Beginning	4
ART-283	Painting: Landscapes/Beginning	4
ART-284	Painting: Still Life/Intermediate	4
ART-285	Painting: The Figure/Intermediate	4
ART-286	Painting: Landscapes/Intermediate	4
ART-291	Sculpture	4
ART-292	Sculpture (Figure Emphasis)	4
ART-293	Sculpture (Metal Emphasis)	4
ASL-201	Second-Year American Sign Language I	4
ASL-202	Second-Year American Sign Language II	4
ASL-203	Second-Year American Sign Language III	4
COMM-112	Persuasive Speaking	4
COMM-126	Introduction to Gender Communication	4
COMM-140	Introduction to Intercultural Communication	4
COMM-212	Mass Media & Society	4
COMM-218Z	Interpersonal Communication	4
COMM-219	Small Group Discussion	4
COMM-227	Nonverbal Communication	4
ENG-104	Introduction to Literature: Fiction	4
ENG-105	Introduction to Literature: Drama	4
ENG-106	Introduction to Literature: Poetry	4
ENG-107	World Literature: Ancient Through Classical Times	4
ENG-108	World Literature: Early Middle Ages through the 18th Century	4
ENG-109	World Literature: The 19th through 21st Centuries	4
ENG-116	Introduction to Literature: Comics	4
ENG-121	Mystery Fiction	4
ENG-130	Leadership in Literature	4
ENG-194	Introduction to Film	4
ENG-195	American Film	4
ENG-201	Shakespeare	4
ENG-202	Shakespeare	4

Code	Title	Credits	Code	Title	Credits
ENG-204	British Literature: Ancient to Enlightenment	4	R-102	Christianity and Islam	4
ENG-205	British Literature: Romantic to Contemporary	4	R-103	Asian Religions	4
ENG-213	U.S. Latinx Literature	4	R-204	History of Christianity	4
ENG-218	Arthurian Literature	4	R-210	World Religions	4
ENG-226	Popular Literature	4	R-211	History of the Old Testament	4
ENG-240	Native American Mythology	4	R-212	History of the New Testament	4
ENG-241	Norse Mythology	4	SPN-201	Second-Year Spanish I	4
ENG-243	African Mythology	4	SPN-202	Second-Year Spanish II	4
ENG-250	Greek Mythology	4	SPN-203	Second-Year Spanish III	4
ENG-251	Celtic Mythology	4	SSC-237	Perspectives on Democracy and Dialogue	4
ENG-252	Hindu Mythology	4	TA-101	Appreciation of Theatre	4
ENG-253	American Literature: Pre-Columbian to Civil War	4	TA-102	Appreciation of Theatre	4
ENG-254	American Literature: 1865 to Present	4	TA-103	Appreciation of Theatre	4
ENG-255	American Literature: Topics in American Literature	4	TA-111	Fundamentals of Technical Theatre	4
ENG-260	Introduction to Women Writers	4	TA-122	Costuming II	3
ENG-261	Literature of Science Fiction	4	TA-123	Costuming III	3
ENG-270	Introduction to Literary Criticism	4	TA-141	Acting I	4
ENG-271	World Literature: Ancient Through Classical Times	4	TA-142	Acting II	4
ENG-272	World Literature: Early Middle Ages through the 18th Century	4	TA-143	Acting III	4
ENG-273	World Literature: the 19th Through 21st Centuries	4	TA-153	Theatre Rehearsal & Performance	1-3
ENG-295	Revolutionary Film	4	WR-240	Creative Nonfiction Writing I	4
ENG-296	Adaptation: Literature Into Film	4	WR-241	Fiction Writing I	4
FR-201	Second-Year French I	4	WR-242	Poetry Writing I	4
FR-202	Second-Year French II	4	WR-243	Playwriting I	4
FR-203	Second-Year French III	4	WR-244	Fiction Writing II	4
HUM-235	Perspectives on Terrorism	4	WR-245	Poetry Writing II	4
HUM-237	Perspectives on Democracy and Dialogue	4	WR-247	Playwriting II	4
HUM-240	American Military Conflict: Wars of National Identity	4	WR-248	Bookmaking: Design and Layout	4
HUM-241	American Military Conflict: Global War	4	WR-262	Introduction to Screenwriting	4
HUM-242	American Military Conflict: Asymmetric Warfare	4	WR-263	Screenwriting II	4
J-211	Mass Media & Society	4	WR-265	Digital Storytelling	4
J-216	Writing for Media	4	WR-270	Creative Nonfiction Writing II: Food Writing	4
MUS-105	Music Appreciation	3	WS-101	Introduction to Women's Studies	4
MUS-111	Music Theory I	3			
MUS-112	Music Theory I	3			
MUS-113	Music Theory I	3			
MUS-205	Music Literature: History of Jazz	4			
MUS-206	Music Literature: History of Rock	4			
MUS-211	Music Theory II	3			
MUS-212	Music Theory II	3			
MUS-213	Music Theory II	3			
PHL-101	Philosophical Problems	4			
PHL-102	Ethics	4			
PHL-103	Critical Reasoning	4			
PHL-205	Moral Issues	4			
PHL-210	Philosophy of Religion	4			
PHL-213	Asian Philosophy	4			
PHL-216	Ancient Philosophy	4			
R-101	Judaism and Foundations of Religion	4			

Social Science

- 2 courses
- Each course must be at least 3 credits

Social Science Course List

Code	Title	Credits
ANT-101	Physical Anthropology	4
ANT-102	Archaeology & Prehistory	4
ANT-103	Cultural Anthropology	4
ANT-232	Native Americans of North America	4
CJA-101	Criminology	4
CJA-201	Juvenile Delinquency	4
EC-201	Principles of Economics: Micro	4
EC-202	Principles of Economics: Macro	4
GEO-100	Introduction to Physical Geography	4
GEO-110	Cultural & Human Geography	4
GEO-130	Introduction to Environmental Geography	4
GEO-208	Geography of the United States & Canada	4

Code	Title	Credits	Code	Title	Credits
HE-163	Body & Drugs I: Introduction to Abuse & Addiction	3	ASC-176	Integrated Science Inquiry	4
HE-164	Body & Drugs II: Alcohol	3	ASC-177	Integrated Science Inquiry	4
HST-101	History of Western Civilization	4	BI-101	General Biology; Cellular Biology	4
HST-102	History of Western Civilization	4	BI-102	General Biology; Animal Systems	4
HST-103	History of Western Civilization	4	BI-103	General Biology; Plants & The Ecosystem	4
HST-130	Oddballs and Outcasts in Western Civilization	4	BI-112	General Biology for Health Sciences	4
HST-131	History of Crime & Punishment in Western Civilization	4	BI-160L	Bird Identification & Taxonomy with Lab	4
HST-132	History of Language and the Written Word in Western Civilization	4	BI-165CL	Natural History of the Oregon Coast with Lab	4
HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4	BI-165D	Natural History of the Western Deserts	4
HST-137	History of Science, Medicine, & Technology in Western Civilization	4	BI-175	Integrated Science Inquiry	4
HST-138	History of Love, Marriage and the Family In Western Civilization	4	BI-176	Integrated Science Inquiry	4
HST-201	History of the United States	4	BI-177	Integrated Science Inquiry	4
HST-202	History of the United States	4	BI-204	Elementary Microbiology	4
HST-203	History of the United States	4	BI-211	General Biology for Science Majors (Cellular Biology)	5
HUM-237	Perspectives on Democracy and Dialogue	4	BI-212	General Biology for Science Majors (Animal Biology)	5
PS-200	Introduction to Political Science	4	BI-213	General Biology for Science Majors (Plant Biology & Ecology)	5
PS-201	American Government and Politics	4	BI-231	Human Anatomy & Physiology I	4
PS-203	State and Local Governments	4	BI-232	Human Anatomy & Physiology II	4
PS-204	Introduction to Comparative Politics	4	BI-233	Human Anatomy & Physiology III	4
PS-205	International Relations	4	BI-234	Introductory Microbiology	4
PS-225	Introduction to Political Ideologies	4	CH-104	Introductory Chemistry	5
PS-297	Introduction to Environmental Politics	4	CH-105	Introductory Chemistry	5
PSY-200	Introduction to Psychology: Part 1	4	CH-106	Introductory Chemistry	5
PSY-205	Introduction to Psychology: Part 2	4	CH-112	Chemistry for Health Sciences	4
PSY-215	Introduction to Developmental Psychology	4	CH-114	Chemistry in Art	4
PSY-219	Introduction to Abnormal Psychology	4	CH-221	General Chemistry	5
PSY-231	Introduction to Human Sexuality	4	CH-222	General Chemistry	5
SOC-204	Introduction to Sociology	4	CH-223	General Chemistry	5
SOC-205	Social Stratification & Social Systems	4	ESR-171	Introduction to Environmental Science	4
SOC-206	Institutions & Social Change	4	ESR-172	Introduction to Climate Change	4
SOC-210	Marriage, Family, & Intimate Relations	4	ESR-173	Introduction to Sustainability	4
SOC-225	Social Problems	4	G-101	General Geology	4
SSC-235	Perspectives on Terrorism	4	G-102	General Geology	4
SSC-237	Perspectives on Democracy and Dialogue	4	G-103	General Geology	4
SSC-240	American Military Conflict: Wars of National Identity	4	G-148	Volcanoes & Earthquakes	4
SSC-241	American Military Conflict: Global War	4	G-201	General Geology	4
SSC-242	American Military Conflict: Asymmetric Warfare	4	G-202	General Geology	4
WS-101	Introduction to Women's Studies	4	G-203	General Geology	4
			GS-104	Earth System Science	4
			GS-105	Earth System Science	4
			GS-106	Earth System Science	4
			GS-107	Astronomy	4
			PH-121	Astronomy	4
			PH-122	General Astronomy	4
			PH-123	General Astronomy	4
			PH-201	General Physics	5
			PH-202	General Physics	5
			PH-203	General Physics	5
			PH-211	General Physics With Calculus	5

Natural Science

- 2 lab science courses
- Each course must be at least 4 credits

Natural Science Course List

Code	Title	Credits
EOU, SOU, or WOU		
ASC-175	Integrated Science Inquiry	4

Code	Title	Credits	Code	Title	Credits
PH-212	General Physics With Calculus	5	FR-201	Second-Year French I	4
PH-213	General Physics With Calculus	5	FR-202	Second-Year French II	4
Z-201	General Zoology	4	FR-203	Second-Year French III	4
Z-202	General Zoology	4	GEO-100	Introduction to Physical Geography	4
Z-203	General Zoology	4	GEO-110	Cultural & Human Geography	4
OSU, PSU, or UO			GEO-130	Introduction to Environmental Geography	4
BI-211	General Biology for Science Majors (Cellular Biology)	5	GEO-208	Geography of the United States & Canada	4
BI-212	General Biology for Science Majors (Animal Biology)	5	HST-101	History of Western Civilization	4
<i>OR</i>			HST-102	History of Western Civilization	4
CH-221	General Chemistry	5	HST-103	History of Western Civilization	4
CH-222	General Chemistry	5	HST-130	Oddballs and Outcasts in Western Civilization	4
<i>OR</i>			HST-131	History of Crime & Punishment in Western Civilization	4
PH-211	General Physics With Calculus	5	HST-132	History of Language and the Written Word in Western Civilization	4
PH-212	General Physics With Calculus	5	HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4
Cultural Literacy			HST-137	History of Science, Medicine, & Technology in Western Civilization	4
• 1 course			HST-138	History of Love, Marriage and the Family In Western Civilization	4
Cultural Literacy Course List			HST-201	History of the United States	4
Code	Title	Credits	HST-202	History of the United States	4
ANT-102	Archaeology & Prehistory	4	HST-203	History of the United States	4
ANT-103	Cultural Anthropology	4	HUM-235	Perspectives on Terrorism	4
ANT-232	Native Americans of North America	4	HUM-237	Perspectives on Democracy and Dialogue	4
ART-204	History of Art/Ancient Through Medieval	4	HUM-240	American Military Conflict: Wars of National Identity	4
ART-205	History of Art/Romanesque Through Baroque	4	HUM-241	American Military Conflict: Global War	4
ART-206	History of Art/Enlightenment Through Contemporary	4	HUM-242	American Military Conflict: Asymmetric Warfare	4
ASL-201	Second-Year American Sign Language I	4	MUS-206	Music Literature: History of Rock	4
ASL-202	Second-Year American Sign Language II	4	PHL-101	Philosophical Problems	4
ASL-203	Second-Year American Sign Language III	4	PHL-102	Ethics	4
COMM-126	Introduction to Gender Communication	4	PHL-103	Critical Reasoning	4
COMM-140	Introduction to Intercultural Communication	4	PHL-205	Moral Issues	4
COMM-218Z	Interpersonal Communication	4	PHL-210	Philosophy of Religion	4
COMM-219	Small Group Discussion	4	PHL-213	Asian Philosophy	4
ENG-107	World Literature: Ancient Through Classical Times	4	PHL-216	Ancient Philosophy	4
ENG-108	World Literature: Early Middle Ages through the 18th Century	4	PS-200	Introduction to Political Science	4
ENG-109	World Literature: The 19th through 21st Centuries	4	PSY-205	Introduction to Psychology: Part 2	4
ENG-213	U.S. Latinx Literature	4	PSY-219	Introduction to Abnormal Psychology	4
ENG-240	Native American Mythology	4	PSY-231	Introduction to Human Sexuality	4
ENG-241	Norse Mythology	4	R-101	Judaism and Foundations of Religion	4
ENG-243	African Mythology	4	R-102	Christianity and Islam	4
ENG-250	Greek Mythology	4	R-103	Asian Religions	4
ENG-251	Celtic Mythology	4	R-204	History of Christianity	4
ENG-252	Hindu Mythology	4	R-210	World Religions	4
ENG-261	Literature of Science Fiction	4	R-211	History of the Old Testament	4
ENG-271	World Literature: Ancient Through Classical Times	4	R-212	History of the New Testament	4
ENG-272	World Literature: Early Middle Ages through the 18th Century	4	SOC-204	Introduction to Sociology	4
ENG-273	World Literature: the 19th Through 21st Centuries	4	SOC-205	Social Stratification & Social Systems	4
ENG-295	Revolutionary Film	4	SOC-206	Institutions & Social Change	4

Code	Title	Credits
SOC-210	Marriage, Family, & Intimate Relations	4
SOC-225	Social Problems	4
SPN-201	Second-Year Spanish I	4
SPN-202	Second-Year Spanish II	4
SPN-203	Second-Year Spanish III	4
SSC-235	Perspectives on Terrorism	4
SSC-237	Perspectives on Democracy and Dialogue	4
SSC-240	American Military Conflict: Wars of National Identity	4
SSC-241	American Military Conflict: Global War	4
SSC-242	American Military Conflict: Asymmetric Warfare	4
WR-241	Fiction Writing I	4
WR-244	Fiction Writing II	4
WS-101	Introduction to Women's Studies	4

Other Requirements

Computer Science Specific Requirements

- 4-5 courses

Computer Science Specific Course List

Code	Title	Credits
EOU, SOU, or WOU		
CS-160	Computer Science Orientation	4
CS-161	Computer Science I	4
CS-162	Computer Science II	4
CS-260	Data Structures	4
OSU, PSU, or UO		
CS-160	Computer Science Orientation	4
CS-161	Computer Science I	4
CS-162	Computer Science II	4
CS-205	System Programming and Architecture	4
CS-260	Data Structures	4

Elective Courses

- Any college-level course that would bring total credits to 90 credits
- Other courses numbered 100 or above may be used in this area, which may include up to 12 credits of career technical courses and up to 3 credits of Physical Education activity courses (PE-185 Physical Education, PE-194 Professional Activities, PE-294 Professional Activities)
- Please refer to the [Elective Course list](#) for courses that may be included

Notes

- All courses must be passed with a C or better
- No course may be used to satisfy more than one requirement or distribution area