

COMPUTER SCIENCE (ASOT)

Program Code: AS.OTCOMPSCIENCE

The ASOT - Computer Science degree is a two year degree designed for the student intending to transfer to a four-year college or public university in Oregon and pursuing upper division baccalaureate courses in Computer Science. CCC students who have earned the ASOT - Computer Science degree and have met the transfer institution's lower-division general education degree requirements will be eligible for junior standing for the purposes of registration.

Outcomes

Program Outcomes

Upon successful completion of this program, students should be able to:

- gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions;
- apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner;
- assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Requirements

Choose from the following courses to meet degree requirements. All courses must be passed with a C or better. No course may be used to satisfy more than one requirement or distribution area.

Foundational Skills

Writing

- 8 Credits

Code	Title	Credits
WR-121	English Composition	4
WR-122 or WR-227	English Composition Technical Report Writing	4

Oral Communication

- 1 Course

Code	Title	Credits
COMM-111	Public Speaking	4

Mathematics

- 2 Courses

Code	Title	Credits
MTH-251	Calculus I	5
MTH-252	Calculus II	5

Health & Physical Education

- At Least 3 credits

Code	Title	Credits
PE-185	Physical Education	1
PE-194	Professional Activities	1
PE-240	Strength & Conditioning Theory & Techniques	3
PE-260	Care and Prevention of Athletic Injuries	2
PE-270	Sport and Exercise Psychology	3
PE-294	Professional Activities	1
PE-294A	Philosophy of Coaching	2
HE-201	Personal Training	3
HE-202	Introduction to Fitness Technology Careers	1
HE-204	Nutrition & Weight Control	3
HE-205	Youth Addictions	3
HE-207	Introduction to Plant Based Living	3
HE-223	Sports Nutrition	3
HE-249	Mental Health	3
HE-250	Personal Health	3
HE-252	First Aid/CPR/AED	3
HE-261	Community CPR	1
HPE-295	Health & Fitness for Life	3

General Education Distribution Areas

Arts & Letters

- 3 courses from 2 or more disciplines
- 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

Code	Title	Credits	Code	Title	Credits
ART-293	Sculpture (Metal Emphasis)	4	FR-203	Second-Year French III	4
ASL-201	Second-Year American Sign Language I	4	GER-201	Second-Year German I	4
ASL-202	Second-Year American Sign Language II	4	GER-202	Second-Year German II	4
ASL-203	Second-Year American Sign Language III	4	GER-203	Second-Year German III	4
BA-130	Leadership in Literature	4	HUM-235	Perspectives on Terrorism	4
COMM-112	Persuasive Speaking	4	HUM-237	Perspectives on Democracy and Dialogue	4
COMM-126	Introduction to Gender Communication	4	HUM-240	American Military Conflict: Wars of National Identity	4
COMM-140	Introduction to Intercultural Communication	4	HUM-241	American Military Conflict: Global War	4
COMM-212	Mass Media & Society	4	HUM-242	American Military Conflict: Asymmetric Warfare	4
COMM-218	Interpersonal Communication	4	J-211	Mass Media & Society	4
COMM-219	Small Group Discussion	4	J-216	Writing for Media	4
COMM-227	Nonverbal Communication	4	MUS-105	Music Appreciation	3
ENG-104	Introduction to Literature: Fiction	4	MUS-111	Music Theory I	3
ENG-105	Introduction to Literature: Drama	4	MUS-112	Music Theory I	3
ENG-106	Introduction to Literature: Poetry	4	MUS-113	Music Theory I	3
ENG-107	World Literature: Ancient Through Classical Times	4	MUS-205	Music Literature: History of Jazz	4
ENG-108	World Literature: Early Middle Ages through the 18th Century	4	MUS-206	Music Literature: History of Rock	4
ENG-109	World Literature: The 19th through 21st Centuries	4	MUS-211	Music Theory II	3
ENG-116	Introduction to Literature: Comics	4	MUS-212	Music Theory II	3
ENG-121	Mystery Fiction	4	MUS-213	Music Theory II	3
ENG-130	Leadership in Literature	4	PHL-101	Philosophical Problems	4
ENG-194	Introduction to Film	4	PHL-102	Ethics	4
ENG-195	American Film	4	PHL-103	Critical Reasoning	4
ENG-201	Shakespeare	4	PHL-205	Moral Issues	4
ENG-202	Shakespeare	4	PHL-210	Philosophy of Religion	4
ENG-204	British Literature: Ancient to Enlightenment	4	PHL-213	Asian Philosophy	4
ENG-205	British Literature: Romantic to Contemporary	4	PHL-216	Ancient Philosophy	4
ENG-213	U.S. Latino Literature	4	R-101	Judaism and Foundations of Religion	4
ENG-218	Arthurian Literature	4	R-102	Christianity and Islam	4
ENG-226	Popular Literature	4	R-103	Asian Religions	4
ENG-240	Native American Mythology	4	R-204	History of Christianity	4
ENG-241	Norse Mythology	4	R-210	World Religions	4
ENG-250	Greek Mythology	4	R-211	History of the Old Testament	4
ENG-251	Celtic Mythology	4	R-212	History of the New Testament	4
ENG-252	Hindu Mythology	4	SPN-201	Second-Year Spanish I	4
ENG-253	American Literature: Pre-Columbian to Civil War	4	SPN-202	Second-Year Spanish II	4
ENG-254	American Literature: 1865 to Present	4	SPN-203	Second-Year Spanish III	4
ENG-255	American Literature: Topics in American Literature	4	SSC-237	Perspectives on Democracy and Dialogue	4
ENG-260	Introduction to Women Writers	4	TA-101	Appreciation of Theatre	4
ENG-261	Literature of Science Fiction	4	TA-102	Appreciation of Theatre	4
ENG-266	The Literature of War	4	TA-103	Appreciation of Theatre	4
ENG-270	Introduction to Literary Criticism	4	TA-111	Fundamentals of Technical Theatre	4
ENG-271	World Literature: Ancient Through Classical Times	4	TA-122	Costuming II	3
ENG-272	World Literature: Early Middle Ages through the 18th Century	4	TA-123	Costuming III	3
ENG-273	World Literature: the 19th Through 21st Centuries	4	TA-141	Acting I	4
ENG-295	Revolutionary Film	4	TA-142	Acting II	4
ENG-296	Adaptation: Literature Into Film	4	TA-143	Acting III	4
FR-201	Second-Year French I	4	TA-153	Theatre Rehearsal & Performance	1-3
FR-202	Second-Year French II	4	WR-240	Creative Nonfiction Writing I	4
			WR-241	Fiction Writing I	4

Code	Title	Credits
WR-242	Poetry Writing I	4
WR-243	Playwriting I	4
WR-244	Fiction Writing II	4
WR-245	Poetry Writing II	4
WR-247	Playwriting II	4
WR-248	Bookmaking: Design and Layout	4
WR-262	Introduction to Screenwriting	4
WR-263	Screenwriting II	4
WR-265	Digital Storytelling	4
WR-270	Creative Nonfiction Writing II: Food Writing	4
WS-101	Introduction to Women's Studies	4

Social Science

- 4 courses from 2 or more disciplines
- 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-231	Native Americans of the Pacific Northwest	4
ANT-232	Native Americans of North America	4
CJA-101	Criminology	4
CJA-201	Juvenile Delinquency	4
EC-200	Introduction to Economics	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
HE-163	Body & Drugs I: Introduction to Abuse & Addiction	3
HE-164	Body & Drugs II: Alcohol	3
HST-101	History of Western Civilization	4
HST-102	History of Western Civilization	4
HST-103	History of Western Civilization	4
HST-130	Oddballs and Outcasts in Western Civilization	4
HST-131	History of Crime & Punishment in Western Civilization	4
HST-132	History of Language and the Written Word in Western Civilization	4
HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4
HST-137	History of Science, Medicine, & Technology in Western Civilization	4
HST-138	History of Love, Marriage and the Family In Western Civilization	4
HST-201	History of the United States	4
HST-202	History of the United States	4
HST-203	History of the United States	4
HUM-237	Perspectives on Democracy and Dialogue	4
PS-200	Introduction to Political Science	4

Code	Title	Credits
PS-201	American Government and Politics	4
PS-203	State and Local Governments	4
PS-204	Introduction to Comparative Politics	4
PS-205	International Relations	4
PS-225	Introduction to Political Ideologies	4
PS-297	Introduction to Environmental Politics	4
PSY-200	Psychology As A Natural Science	4
PSY-205	Psychology As a Social Science	4
PSY-215	Introduction to Developmental Psychology	4
PSY-219	Introduction to Abnormal Psychology	4
PSY-231	Introduction to Human Sexuality	4
SOC-204	Introduction to Sociology	4
SOC-205	Social Stratification & Social Systems	4
SOC-206	Institutions & Social Change	4
SOC-210	Marriage, Family, & Intimate Relations	4
SOC-225	Social Problems	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
WS-101	Introduction to Women's Studies	4

Science/Math/Computer Science

- 4 courses from at least 2 disciplines, including at least 3 laboratory courses in biological and/or physical science
- Each course must be at least 3 credits

Science/Math/Computer Science Course List

Code	Title	Credits
ASC-175	Integrated Science Inquiry	4
ASC-176	Integrated Science Inquiry	4
ASC-177	Integrated Science Inquiry	4
BI-101	General Biology; Cellular Biology	4
BI-102	General Biology; Animal Systems	4
BI-103	General Biology; Plants & the Ecosystem	4
BI-112	General Biology for Health Sciences	4
BI-160	Bird Identification & Taxonomy	3
BI-160L	Bird Identification & Taxonomy with Lab	4
BI-165C	Natural History of the Oregon Coast	3
BI-165CL	Natural History of the Oregon Coast With Lab	4
BI-165D	Natural History of the Western Deserts	4
BI-175	Integrated Science Inquiry	4
BI-176	Integrated Science Inquiry	4
BI-177	Integrated Science Inquiry	4
BI-204	Elementary Microbiology	4
BI-211	General Biology for Science Majors (Cellular Biology)	5
BI-212	General Biology for Science Majors (Animal Biology)	5
BI-213	General Biology for Science Majors (Plant Biology & Ecology)	5

Code	Title	Credits
BI-231	Human Anatomy & Physiology I	4
BI-232	Human Anatomy & Physiology II	4
BI-233	Human Anatomy & Physiology III	4
BI-234	Introductory Microbiology	4
CH-104	Introductory Chemistry	5
CH-105	Introductory Chemistry	5
CH-106	Introductory Chemistry	5
CH-112	Chemistry for Health Sciences	4
CH-114	Chemistry in Art	4
CH-221	General Chemistry	5
CH-222	General Chemistry	5
CH-223	General Chemistry	5
ESR-171	Environmental Science	4
ESR-172	Environmental Science	4
ESR-173	Environmental Science	4
G-101	General Geology	4
G-102	General Geology	4
G-103	General Geology	4
G-148	Volcanoes & Earthquakes	4
G-201	General Geology	4
G-202	General Geology	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
MTH-105	Math in Society	4
MTH-111	College Algebra	5
MTH-112	Trigonometry and Pre-Calculus	5
MTH-211	Fundamentals of Elementary Math I	4
MTH-212	Fundamentals of Elementary Math II	4
MTH-213	Fundamentals of Elementary Math III	4
MTH-243	Statistics I	4
MTH-244	Statistics II	4
MTH-251	Calculus I	5
MTH-252	Calculus II	5
MTH-253	Calculus III	5
MTH-254	Vector Calculus	5
MTH-256	Differential Equations	4
MTH-261	Linear Algebra	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
PH-212	General Physics With Calculus	5
PH-213	General Physics With Calculus	5
Z-201	General Zoology	4

Code	Title	Credits
Z-202	General Zoology	4
Z-203	General Zoology	4

Cultural Literacy

- 1 Course
- Each course must be at least 3 credits

Cultural Literacy Course List

Code	Title	Credits
ANT-102	Archaeology & Prehistory	4
ANT-103	Cultural Anthropology	4
ANT-231	Native Americans of the Pacific Northwest	4
ANT-232	Native Americans of North America	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
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-126	Introduction to Gender Communication	4
COMM-140	Introduction to Intercultural Communication	4
COMM-218	Interpersonal Communication	4
COMM-219	Small Group Discussion	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-213	U.S. Latino Literature	4
ENG-240	Native American Mythology	4
ENG-241	Norse Mythology	4
ENG-250	Greek Mythology	4
ENG-251	Celtic Mythology	4
ENG-252	Hindu Mythology	4
ENG-261	Literature of Science Fiction	4
ENG-271	World Literature: Ancient Through Classical Times	4
ENG-272	World Literature: Early Middle Ages through the 18th Century	4
ENG-273	World Literature: the 19th Through 21st Centuries	4
ENG-295	Revolutionary Film	4
FR-201	Second-Year French I	4
FR-202	Second-Year French II	4
FR-203	Second-Year French III	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
GER-201	Second-Year German I	4
GER-202	Second-Year German II	4
GER-203	Second-Year German III	4
HST-101	History of Western Civilization	4
HST-102	History of Western Civilization	4

Code	Title	Credits	Code	Title	Credits
HST-103	History of Western Civilization	4	SSC-241	American Military Conflict: Global War	4
HST-130	Oddballs and Outcasts in Western Civilization	4	SSC-242	American Military Conflict: Asymmetric Warfare	4
HST-131	History of Crime & Punishment in Western Civilization	4	WR-241	Fiction Writing I	4
HST-132	History of Language and the Written Word in Western Civilization	4	WR-244	Fiction Writing II	4
HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4	WS-101	Introduction to Women's Studies	4
HST-137	History of Science, Medicine, & Technology in Western Civilization	4			
HST-138	History of Love, Marriage and the Family In Western Civilization	4			
HST-201	History of the United States	4			
HST-202	History of the United States	4			
HST-203	History of the United States	4			
HUM-235	Perspectives on Terrorism	4			
HUM-237	Perspectives on Democracy and Dialogue	4			
HUM-240	American Military Conflict: Wars of National Identity	4			
HUM-241	American Military Conflict: Global War	4			
HUM-242	American Military Conflict: Asymmetric Warfare	4			
MUS-206	Music Literature: History of Rock	4			
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			
PS-200	Introduction to Political Science	4			
PSY-205	Psychology As a Social Science	4			
PSY-219	Introduction to Abnormal Psychology	4			
PSY-231	Introduction to Human Sexuality	4			
R-101	Judaism and Foundations of Religion	4			
R-102	Christianity and Islam	4			
R-103	Asian Religions	4			
R-204	History of Christianity	4			
R-210	World Religions	4			
R-211	History of the Old Testament	4			
R-212	History of the New Testament	4			
SOC-204	Introduction to Sociology	4			
SOC-205	Social Stratification & Social Systems	4			
SOC-206	Institutions & Social Change	4			
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			

Other Requirements

Computer Science Specific Requirements

- Minimum of 16 credits
- Each course must be at least 3 credits

Computer Science Specific Requirements Course List

Code	Title	Credits
CS-160	Computer Science Orientation	4
CS-161	Computer Science I	4
CS-162	Computer Science II	4
CS-260	Data Structures	4

Elective and/or University Specific Requirements

- Determined by choice of transfer institution. Please contact your transfer advisor for assistance
- Other courses numbered 100 or above may be used in this area, which may include up to 12 credits of career technical courses
- Please refer to the [Elective Course List](#) for courses that may be included