

# ASSOCIATE IN SCIENCE GENERAL EDUCATION 2023-2024: OPTION 1 (ORANGE COAST COLLEGE GENERAL EDUCATION)

Orange Coast College grants the degree of Associate in Science. Below are the general education requirements for the AS degree.

For additional information regarding earning an Associate in Science Degree, please see the Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/>) section of this catalog. Only one Associate in Science degree will be awarded to a student by OCC.

Complete a minimum of 18 units distributed among the following. One course may not be used to meet two separate requirements.

## Area A: English Communication

Students will be able to read, write, listen, and speak competently while demonstrating critical/analytical thinking skills. Six semester units (or eight quarter units) to include one course from A1 and one course from A2.

### A1 English Composition

Course	Title	Units
ENGL A100	Freshman Composition <sup>1</sup>	3
ESL A100	ESL College Composition <sup>1</sup>	3

<sup>1</sup>

With a grade of "C" or better.

### A2 Communication and Analytical Thinking

Course	Title	Units
BUS A139	Business Communication	3
CMST A100	Interpersonal Communication	3
CMST A110	Public Speaking	3
CMST A120	Reader's Theater and Oral Interpretation	3
CMST A180	Introduction to Mass Communications	3
CMST A220	Essentials of Argumentation	3
CMST A240	Media Literacy	3
CS A262	Discrete Structures	3
DMAD A181	Introduction to Computer Graphics	3
ENGL A101	Critical Reasoning: Fiction	4
or ENGL A101H	Critical Reasoning: Fiction Honors	
ENGL A102	Critical Reasoning: Nonfiction	3
or ENGL A102H	Critical Reasoning: Nonfiction Honors	
ENGL A109	Critical Reasoning and Writing for Science and Technology	3
MACH A121	Computations for Machinists	3
MATH A100	Liberal Arts Mathematics	3
MATH A104	Mathematics for Elementary Teachers	3
MATH A115	College Algebra	4

Course	Title	Units
MATH A120	Trigonometry	3
MATH A140	Business Calculus	4
MATH A155	Finite Mathematics with Applications	4
MATH A160	Introduction to Statistics	4
MATH A170	Precalculus	4
MATH A180	Calculus 1	4
or MATH A180H	Calculus 1 Honors	
MATH A182H	Calculus 1 and 2 Honors	5
MATH A185	Calculus 2	4
or MATH A185H	Calculus 2 Honors	
MATH A230	Introduction to Discrete Mathematics	5
MATH A235	Applied Linear Algebra	3
MATH A280	Calculus 3	4
or MATH A280H	Calculus 3 Honors	
MATH A285	Introduction to Linear Algebra and Differential Equations	4
or MATH A285H	Introduction to Linear Algebra and Differential Equations Honors	
MATH A290H	Introduction to Tensors and Calculus on Manifolds Honors	5
PHIL A150	Critical Reasoning & Writing	3
PHIL A155	Introduction to Logic	3
PHIL/MATH A220	Introduction to Symbolic Logic	3
PSYC A160	Statistics for the Behavioral Sciences	4
PSYC A270	Psychology of Learning	3
TECH A040	Technical Math	3

## Area B: Physical and Biological Sciences

Students will apply critical thinking skills concerning the causes and effects of natural phenomena and will become familiar with the rational approach that researchers use to analyze data and formulate logical conclusions. Three semester units (or four quarter units).

Course	Title	Units
ANTH A185	Physical Anthropology	3
or ANTH A185H	Physical Anthropology Honors	
ANTH A185L	Phys Anthropology Lab	1
ASTR A100	Introduction to Astronomy	3
or ASTR A100H	Introduction to Astronomy Honors	
ASTR A100L	Introduction to Astronomy Laboratory	1
or ASTR A100M	Introduction to Astronomy Laboratory Honors	
ASTR A101	Planetary Astronomy	3
ASTR A102	Stellar Astronomy	3
ASTR A103	Cosmology	3
ASTR A104	Galactic Astronomy	3
ASTR A200	Introduction to Astrophysics	4
or ASTR A200H	Introduction to Astrophysics Honors	
BIOL A100	Principles of Biology	4
or BIOL A100H	Principles of Biology Honors	
BIOL A101	The Biology of Cooking	4
BIOL A114	Basic Microbiology	2
BIOL A125	Human Biology	3

Course	Title	Units
BIOL A180	Introduction to Biology for Majors 1: Cell and Molecular Biology	4
BIOL A182	Zoology	3
or BIOL A182H	Zoology Honors	
BIOL A182L	Zoology Lab	1
BIOL A183	Botany	3
BIOL A183L	Botany Lab	1
BIOL A185	Introduction to Biology for Majors 2: Ecology, Evolution, Diversity, and Physiology	5
BIOL A210	General Microbiology	5
BIOL A220	Human Anatomy	5
BIOL A221	Anatomy-Physiology	4
BIOL A225	Human Physiology	5
BIOL A283	Genetics	4
CHEM A100	Principles of Chemistry	3
CHEM A110	Introduction to Chemistry	5
CHEM A130	Preparation for General Chemistry	4
CHEM A180	General Chemistry A	5
CHEM A185	General Chemistry B	5
CHEM A220	Organic Chemistry A	3
CHEM A220L	Organic Chemistry A Lab	2
CHEM A225	Organic Chemistry B	3
CHEM A225L	Organic Chemistry B Laboratory	2
ESEC A100	Introduction to Environmental Science	3
or ESEC A100H	Introduction to Environmental Science Honors	
ENGR A110	Introduction to Engineering and Design	3
or ENGR A110H	Introduction to Engineering and Design Honors	
FN A195	Food Science	4
GEOG A130	Introduction to Weather & Climate	3
GEOG A180	Physical Geography	3
or GEOG A180H	Physical Geography Honors	
GEOG A180L	Physical Geography Lab	1
GEOL A101	Age of the Dinosaurs	4
GEOL A105	General Geology	3
or GEOL A105H	General Geology Honors	
GEOL A105L	General Geology Laboratory	1
or GEOL A105M	General Geology Laboratory Honors	
GEOL A106	Earth Science for Teachers	4
GEOL A110	Physical Geology	4
GEOL A115	California Geology	3
GEOL A131	Weather and Climate	3
GEOL A160	Environmental Geology	4
GEOL A185	Evolution of the Earth	3
or GEOL A185H	Evolution of the Earth Honors	
GEOL A185L	Evolution of the Earth Lab	1
or GEOL A185M	Evolution of the Earth Lab Honors	
HORT A100	Horticulture Science	3
KIN A272	Movement Analysis	3
KIN A282	Introduction to Exercise Physiology	3
KIN A282H	Introduction to Exercise Physiology Honors	3
MRSC A100	Oceanography	3

Course	Title	Units
or MRSC A100H	Oceanography Honors	
MRSC A100L	Oceanography Laboratory	1
or MRSC A100M	Oceanography Laboratory Honors	
MRSC A180	Marine Biology	3
MRSC A180L	Marine Biology Lab	1
MRSC A185	Coastal Oceanography	3
MRSC A185L	Coastal Oceanography Lab	1
MRSC A187	Marine Mammals	3
NS A115	Science and Technology in Music	3
PHYS A110	Conceptual Physics	3
PHYS A111	Introductory Physics Laboratory	1
PHYS A120	Algebra Based Physics: Mechanics	4
PHYS A125	Algebra Based Physics:Electricity/ Magnetism	4
PHYS A130	University Physics 1 (non-majors)	4
PHYS A135	University Physics 2 (non-majors)	4
PHYS A185	Calculus Based Physics: Mechanics	4
or PHYS A185H	Calculus-Based Physics: Mechanics Honors	
PHYS A280	Calculus Based Physics: Electricity/ Magnetism	4
PHYS A285	Calculus Based Physics: Modern	4
PSYC A250	Psychobiology	3

## Area C: Arts and Humanities

Students will develop skill sets associated with the arts and humanities by analyzing aesthetic qualities, evaluating and developing rational arguments, identifying cultural and historical influences, and engaging in artistic expression. Six semester units (or eight quarter units) to include at least one course from C1 and one course from C2.

### C1 Arts

Course	Title	Units
ARCH A105	Architectural Drawing and Design Visualization 1	2
ARCH A115	Architectural Design and Theory 1	4
ARCH A171	Design Fabrication 1	2
ARCH A205	Architectural Drawing and Design Visualization 2	3
ARCH A290	History of Architecture 1	3
or ARCH A290H	History of Architecture 1 Honors	
ARCH A296	History of Architecture 2	3
or ARCH A296H	History of Architecture 2 Honors	
ART A100	Survey of Western Art from Prehistory Through Gothic	3
or ART A100H	Honors Survey of Western Art from Prehistory Through Gothic	
ART A101	Survey of Western Art from Renaissance to Modern	3
or ART A101H	Honors Survey of Western Art from Renaissance to Modern	
ART A102	Survey of Modern and Contemporary Art History	3
ART A103	Survey of Asian Art	3

Course	Title	Units	Course	Title	Units
ART A107	Introduction To Art	3	DANC A158	African Dance and Drumming II	1
ART A108	Women in Art	3	DANC A159	Hip-Hop Dance II	1
ART A109	Ancient Greek Art and Architecture	3	DANC A160	Dance Composition/Choreography I	3
or ART A109H	Ancient Greek Art and Architecture Honors		DANC A170	Music for Dancers	2
ART A110	Color and Design: Two-Dimensional	3	DANC A171	Modern Dance Basics	2
ART A111	Color and Design: Three-Dimensional	3	DANC A172	Ballet Dance Basics	2
ART A114	Art of the Ancient Americas	3	DANC A173	Jazz Dance Basics	2
ART A115	Art of Africa, Oceania, and Indigenous North America	3	DANC A174	Tap Dance Basics	1
ART A116	Furniture Making and Design	4	DANC A200	Appreciation Of Dance	3
ART A120	Beginning Drawing	3	DANC A203	Performing Dance Ensemble I	3
or ART A120H	Beginning Drawing Honors		DANC A211	Repertoire I	1-4
ART A125	Perspective Drawing	3	DANC A212	Repertoire II	1-4
ART A141	Sculpture 1	3	DANC A223	Performing Dance Ensemble II	3
ART A142	Life Sculpture 1	3	DANC A230	World Dance and Culture	3
ART A145	Exhibition Design 1	3	DANC A243	Jazz IV	2
ART A147	Jewelry 1	3	DANC A244	Ballet IV	2
ART A150	Ceramics 1	3	DANC A245	Modern IV	2
ART A263	Watercolor 1	3	DANC A246	Tap IV	1
ART A269	Cartooning 1	3	DANC A250	Dance Improvisation II	1
CNST A116	Furniture Making and Design	4	DANC A253	Preparation for Audition - Jazz	2
DANC A101	Modern Dance 1	0.5-2	DANC A254	Preparation for Audition - Ballet	2
DANC A102	Modern 2	0.5-2	DANC A255	Preparation for Audition - Modern	2
DANC A106	Strength and Stretch	1-2	DANC A256	Preparation for Audition - Tap	1
DANC A107	Conditioning for Dance	0.5-2	DMAD A151	History of Graphic Design	3
DANC A108	Pilates Mat Work	1-2	DMAD A181	Introduction to Computer Graphics	3
DANC A110	Ballet 1	0.5-2	ENGL A117	Narrative Journalism	3
DANC A111	Ballet 2	0.5-2	ENGL A121	Short Story Workshop	3
DANC A115	Yoga For Dancers	0.5-2	ENGL A122	Novel Writing I	4
DANC A116	Latin Dance Styles I	0.5-2	ENGL A126	Poetry Writing	3
DANC A117	American Social Dance Styles	0.5-2	ENGL A127	Scriptwriting I	4
DANC A118	Movement for Longevity	1-2	FASH A175	Applied Color and Design Theory	3
DANC A120	Jazz Dance 1	0.5-2	FILM A100	History and Appreciation of the Cinema	3
DANC A121	Jazz Dance 2	0.5-2	or FILM A100H	History and Appreciation of the Cinema Honors	
DANC A125	Tap 1	0.5-2	FILM A107	History of Video Games	3
DANC A126	Tap 2	0.5-2	FILM A107H	History of Video Games Honors	3
DANC A130	Mid-Eastern Dance 1	0.5-2	FILM A109	Science Fiction Film	3
DANC A135	Flamenco Dance 1	0.5-2	or FILM A109H	Science Fiction Film Honors	
DANC A138	African Dance and Drumming I	0.5-2	FILM A110	Film Production 1	3
DANC A139	Gyrokinesis	0.5-2	FILM A150	History of Radio & Television	3
DANC A143	Jazz Dance III	2	HUM A100	Introduction to the Humanities	3
DANC A144	Ballet III	2	ID A175	Applied Color and Design Theory	3
DANC A145	Modern Dance III	2	ID A180	History of Interior Architecture and Furnishings 1	3
DANC A146	Tap III	1	ID A190	Hist Arch/Furnishings 2	3
DANC A147	Flamenco Dance 2	0.5-2	MUS A100	History and Appreciation of Western Classical Music	3
DANC A148	Mid-Eastern Dance 2	0.5-2	MUS A105	Music from Bach Up to Rock	3
DANC A149	Hip-Hop Dance I	0.5-2	MUS A115	Fundamentals of Music	3
DANC A150	Dance Improvisation I	1	MUS A116	Basic Guitar	2
DANC A152	Pilates Apparatus 1	1-2	MUS A120	College Choir	1
DANC A153	Pilates Apparatus 2	1-2	MUS A129	Guitar Ensemble	1
DANC A155	Latin Dance Styles II	1			

Course	Title	Units
MUS A132	Wind Ensemble	1
MUS A133	Orchestra	1
MUS A139	History of Rock Music	3
MUS A140	Beginning Instruments	2
MUS A141	Piano 1	1
MUS A143	History of Jazz	3
MUS A144	Popular Vocal Techniques	1.5
MUS A150	Intermediate Band/Orchestra	2
MUS A161	Voice 1	1
MUS A180	Theory 1	3
MUS A230	Jazz Improvisation	1
MUS A233	Symphonic Chamber Orchestra	1
MUS A234	Studio Jazz Ensemble	1
PHOT A100	Basic Digital Photography	2
PHOT A101	Photography and Society	3
PHOT A110	Photography with a Smartphone: Theory and Practice	3
PHOT A120	Introduction to Photography	3
or PHOT A120H	Introduction to Photography Honors	
PHOT A123	Introduction to Digital Photography	3
PHOT A130	History and Appreciation of Photography	3
PHOT A230	Photography Since 1945	3
THEA A100	Introduction to Theatre	3
THEA A101	Introduction to History and Literature of the Theatre	3
THEA A105	Drama and Acting	3
THEA A106	Acting Fundamentals	3
THEA A110	Theatre Laboratory Level 1	2

## C2 Humanities

Course	Title	Units
ANTH A190	Introduction to Linguistic Anthropology	3
CMST A110	Public Speaking	3
CMST A120	Reader's Theater and Oral Interpretation	3
CMST A150	Forensics Workshop	1-4
CMST A155	Intercultural Communications	3
CMST A180	Introduction to Mass Communications	3
ENGL A101	Critical Reasoning: Fiction	4
or ENGL A101H	Critical Reasoning: Fiction Honors	
ENGL A102	Critical Reasoning: Nonfiction	3
or ENGL A102H	Critical Reasoning: Nonfiction Honors	
ENGL A119	Introduction to Creative Writing	3
ENGL A140	Introduction to Literature	3
or ENGL A140H	Introduction to Literature Honors	
ENGL A141	The Bible As Literature	3
or ENGL A141H	The Bible As Literature Honors	
ENGL A143	Children's Literature	3
or ENGL A143H	Children's Literature Honors	
ENGL A147	Introduction to Science Fiction	3
or ENGL A147H	Introduction to Science Fiction Honors	
ENGL A148	Film As Literature	3
or ENGL A148H	Film As Literature Honors	

Course	Title	Units
ENGL A150	American Literature Before the 20th Century	3
or ENGL A150H	American Literature Before the 20th Century Honors	
ENGL A151	American Literature in the 20th Century	3
or ENGL A151H	American Literature in the 20th Century Honors	
ENGL A152	Race, Culture, and Identity in Literature	3
or ENGL A152H	Race, Culture, and Identify in Literature Honors	
ENGL A156	California Literature	3
or ENGL A156H	California Literature Honors	
ENGL A160	World Literature Through Renaissance	3
or ENGL A160H	World Literature Through Renaissance Honors	
ENGL A161	World Literature Since Renaissance	3
or ENGL A161H	World Literature Since Renaissance Honors	
ENGL A168	Popular Fiction	3
ENGL A170	Contemporary Literature	3
or ENGL A170H	Contemporary Literature Honors	
ENGL A173	Women Writers	3
or ENGL A173H	Women Writers Honors	
ENGL A176	World Mythology	3
or ENGL A176H	World Mythology Honors	
ENGL A179	Gender and Sexuality in Literature and Film	3
or ENGL A179H	Gender and Sexuality in Literature and Film Honors	
ENGL A181	Shakespeare	3
or ENGL A181H	Shakespeare Honors	
ENGL A187	Introduction to Literary Theory	3
or ENGL A187H	Introduction to Literary Theory Honors	
ENGL A222	Novel Writing II	3
ENGL A227	Scriptwriting II	4
ENGL A232	Novel Writing III	3
ENGL A237	Scriptwriting III	4
ENGL A242	Novel Writing IV	4
ENGL A247	Scriptwriting IV	4
ENGL A270	Survey of British Literature Before 1800	3
or ENGL A270H	Survey of British Literature Before 1800 Honors	
ENGL A275	Survey of British Literature After 1800	3
or ENGL A275H	Survey of British Literature After 1800 Honors	
ESL A162	Advanced Academic Reading & Writing 2	4.5
ESL A192	Advanced Academic Reading and Writing 3	4.5
ETHS A100	Contemporary Ethnic America	3
ETHS A150	Ethnic Groups in the U.S.: Their Histories	3
Foreign Language - Any course numbered A160 - A285H		
GNDR A187	Women in History	3
HIST A101	Afro-American History	3
HIST A145	History of Mexico	3
HIST A150	Ethnic Groups of the United States: Their Histories	3
HIST A151	History of the Middle East to 1500	3
HIST A152	History of the Middle East Since 1500	3
HIST A161	World History 1	3
or HIST A161H	World History 1 Honors	
HIST A162	World History 2	3

Course	Title	Units	Course	Title	Units
or HIST A162H	World History 2 Honors		CDE A190	Family, School and Community Partnerships	3
HIST A170	History of the United States to 1876	3	CMST A155	Intercultural Communications	3
or HIST A170H	History of the United States to 1876 Honors		CMST A165	Men, Women, and Communication	3
HIST A175	History of the United States Since 1876	3	CMST A260	Organizational Communication	3
or HIST A175H	History of the United States Since 1876 Honors		COUN A107	Chicana/o & Latina/o Experience and Success in Higher Education	3
HIST A176	Women In U.S. History	3	or COUN A107H	Chicana/o & Latina/o Experience and Success in Higher Education Honors	
HIST A180	Western Civilization 1	3	ECON A100	Economics: General Concepts	3
or HIST A180H	Western Civilization 1 Honors		ECON A110	Consumer Economics	3
HIST A185	Western Civilization 2	3	ECON A170	Microeconomics	3
or HIST A185H	Western Civilization 2 Honors		or ECON A170H	Microeconomics Honors	
HIST A187	Women in History	3	ECON A175	Macroeconomics	3
HIST A195	History of England and Greater Britain	3	or ECON A175H	Macroeconomics Honors	
HUM A100	Introduction to the Humanities	3	ETHS A100	Contemporary Ethnic America	3
HUM A101H	Themes in Humanities Honors	3	ETHS A150	Ethnic Groups in the U.S.: Their Histories	3
MATH A220	Introduction to Symbolic Logic	3	ETHS A190	The Ethnic Family	3
PHIL A100	Introduction to Philosophy	3	FASH A170	Clothing Design and Selection	3
PHIL A115	Philosophy of Religion	3	GEOG A190	Digital Mapping: Introduction to GIS	3
PHIL A118	Aesthetics/Philosophy of Art	3	GNDR A100	Introduction to Gender Studies	3
PHIL A120	Ethics	3	GNDR A130	Women, Politics, and Inequality	3
PHIL A125	History of Ancient Philosophy	3	GNDR A165	Men, Women, and Communication	3
PHIL A140	History of Modern Philosophy	3	GNDR A187	Women in History	3
PHIL A150	Critical Reasoning & Writing	3	GEOG A100	World Regional Geography	3
PHIL A165	The Theory of Knowledge	3	or GEOG A100H	World Regional Geography Honors	
PHIL A185	Contemporary Philosophy	3	GEOG A150	California Geography	3
PHIL A220	Introduction to Symbolic Logic	3	GEOG A185	Cultural Geography	3
PUBH A203	Health and Social Justice	3	GLST A101	Introduction to Global Studies	3
PSYC A255	Abnormal Psychology	3	GLST A102	Global Issues	3
RLST A100	Introduction to Religious Studies	3	HLED A122	Drugs, Health and Society	3
RLST A110	World Religion	3	HLED A200	Introduction to Public Health	3
RLST A115	Philosophy of Religion	3	HIST A101	Afro-American History	3
RLST A135	Religion, Spirituality and Society	3	HIST A140	The California Experience	3
RLST A150	Eastern Thought	3	HIST A145	History of Mexico	3
RLST A151	Early and Western Religions	3	HIST A150	Ethnic Groups of the United States: Their Histories	3

## Area D: Social and Behavioral Sciences

Students will use the theoretical and methodological principles of the social and behavioral sciences to explain and evaluate institutions, groups, and individuals across social, economic, and global contexts of historical periods. Three semester units (or four quarter units).

Course	Title	Units	Course	Title	Units
ANTH A100	Cultural Anthropology	3	HIST A161	World History 1	3
or ANTH A100H	Cultural Anthropology Honors		or HIST A161H	World History 1 Honors	
ANTH A102	Native American	3	HIST A162	World History 2	3
ANTH A105	Anthropology of Nonverbal Behavior	3	or HIST A162H	World History 2 Honors	
ANTH A187	Introduction to Primate Studies	3	HIST A170	History of the United States to 1876	3
ANTH A190	Introduction to Linguistic Anthropology	3	or HIST A170H	History of the United States to 1876 Honors	
ANTH A220	Magic, Witchcraft, and Religion	3	HIST A175	History of the United States Since 1876	3
ANTH A280	Introduction to Archaeology	3	or HIST A175H	History of the United States Since 1876 Honors	
CDE A126	Teaching in a Diverse Society	3	HIST A176	Women In U.S. History	3
CDE A180	Child, Growth and Development	3	HIST A180	Western Civilization 1	3
			or HIST A180H	Western Civilization 1 Honors	
			HIST A185	Western Civilization 2	3
			or HIST A185H	Western Civilization 2 Honors	



Course	Title	Units
HIST A187	Women in History	3
HIST A195	History of England and Greater Britain	3
HIST A198	The World at War	3
HTT A125	Destination the Americas	3
HTT A127	Destination Eastern Europe	3
HTT A128	Destination Africa/Pacific	3
HTT A130	Cultural Tourism	3
PSCI A101	Survey of Current Issues	3
PSCI A110	International Relations	3
PSCI A180	American Government	3
or PSCI A180H	American Government Honors	
PSCI A185	Comparative Politics	3
PSCI A188	Introduction to Political Theory	3
PSCI A190	Introduction to American Legal System	3
PSCI A200	Introduction to Political Science	3
PSYC A100	Introduction to Psychology	3
or PSYC A100H	Introduction to Psychology Honors	
PSYC A130	Life Span Developmental Psychology	3
PSYC A165	Principles of Human Sexuality 1	3
PSYC A185	Principles of Psychology	3
PSYC A190	Cross-Cultural Psychology	3
or PSYC A190H	Cross-Cultural Psychology Honors	
PSYC A220	Psychology of Personality	3
PSYC A255	Abnormal Psychology	3
PSYC A260	Social Psychology	3
PSYC A270	Psychology of Learning	3
PSYC A280	Introduction to Experimental Methods	4
PUBH A200	Introduction to Public Health	3
PUBH A202	Drugs, Health, and Society	3
SJS A101	Introduction to Race and Ethnicity	3
SJS A102	Social Justice and Activism	3
SOC A100	Introduction to Sociology	3
or SOC A100H	Introduction to Sociology Honors	
SOC A110	Introduction to Dating, Relationships, and Marriage	3
SOC A150	Introduction to Race and Ethnicity	3
SOC A185	Analysis of Social Problems	3
or SOC A185H	Analysis of Social Problems Honors	
SOC A200	Introduction to Research Methods	3

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With a grade of "C" or better.