

General Education

General Education Program for Undergraduate Degrees

The general education program is required for all bachelor's degree students at the Daytona Beach, Florida, campus, the Prescott, Arizona, campus and the Worldwide campus of Embry-Riddle Aeronautical University.

Embry-Riddle's General Education Program is intentionally designed to align with and reinforce the University's mission, vision, and values. It prepares students with a strong foundation in skill development and a broad base of knowledge across disciplines to complement their educational journey. Through its eight competencies (Collaborative Learning, Communication, Critical Thinking, Cultural Literacy, Information Literacy, Quantitative Reasoning, Scientific Literacy, and Technological Literacy), the General Education Program ensures that students possess the attributes expected of all university graduates.

General Education courses help students develop essential life skills in critical thinking and reasoning. They strengthen students' ability to conduct meaningful research, collaborate in diverse teams, and analyze and communicate both scientific and cultural concepts. This foundation supports success in capstone courses and contributes to Embry-Riddle's continued recognition for academic excellence.

In the workplace, these competencies translate directly into stronger performance: employees use critical thinking and reasoning to solve complex problems, conduct meaningful research to inform decisions, collaborate in diverse teams to achieve organizational goals, and analyze and communicate both scientific and cultural concepts to a range of stakeholders. Graduates emerge prepared to think critically, collaborate effectively, and contribute as informed, responsible members of society.

Candidates for bachelor's degrees must complete coursework in the following credit areas:

Communication	9
The study of how information, meaning, identity, and culture are constructed and shared by means of speaking, writing, or common behaviors	
Humanities/Social Sciences	12
Humanities: The study of world cultures and the artistic expressions of the human experience from an analytical perspective	
Social Sciences: The scientific study of human society and social relations	
3 hours of lower-level Humanities	
3 hours of lower-level Social Science	
3 hours of lower-level or upper-level Humanities or Social Science	
3 hours of upper-level Humanities or Social Science	
Computer Science/Information Technology	3
Computer Science: The study of computers and computational systems	
Information Technology: The use of hardware, software, services, and supporting infrastructure to manage and deliver information using voice, data, and video	
Mathematics	6
The study of assumptions, properties, and applications	
Physical/Life Sciences	6
Physical Sciences: The study of the inorganic world	

Life Sciences: The study of living things and life processes; broader than the definition of the physical sciences and includes the biological sciences

Total Credits

36

Associate Degree General Education Requirements

Candidates for AS degrees must complete the general education credit hours required by their respective programs. The university is committed to ensuring that students possess a general education knowledge that will help them be successful in whatever degree program they select.

State of Minnesota Course Requirement

Worldwide Campus students residing in the State of Minnesota are required to comply with Minnesota Degree Standards which require students to complete four (4) credits in Humanities.

State of Nevada Course Requirement

Worldwide Campus students who obtain their degree from a Nevada campus must complete a course that covers the United States and State Constitution. Students may satisfy this requirement by completing GOVT 320 American National Government or through transfer credit of an equivalent course from another institution. This requirement does not apply to students taking courses through the Online Campus outside Nevada.

Advising

Students should seek the assistance of their Academic Advisor if there are questions. The assigned Academic Advisor contact information can be found in the Campus Solutions Student Center. Daytona Beach, Prescott, and Worldwide Academic Advisors are assigned based on the student's college affiliation (COAS, COA, COB, COBSI, COE) and primary program of study.

General Education Program Student Learning Outcomes

Students will:

- Participate effectively in teams.
- Express ideas effectively for a variety of audiences, contexts, and purposes.
- Evaluate information from multiple perspectives to develop reasoned conclusions.
- Analyze how practices, values, or artifacts shape and/or are shaped by culture.
- Synthesize information appropriately to explore problems.
- Interpret data from numeric, tabular, graphical, and related formats to solve problems or infer conclusions.
- Evaluate scientific concepts, findings, and methodologies to draw logical conclusions.
- Evaluate technology for appropriate applications.

General Education Program Courses

General Education courses offered at the Daytona Beach, Prescott, and Worldwide campuses are listed below. Course offerings vary by semester and campus. Review degree program catalogs for any recommended General Education courses. Any approved General Education course completed at an Embry-Riddle Aeronautical University campus will count toward ERAU General Education requirements.

Communication

COMM courses with an MLW suffix (Multilingual Language Writers) will satisfy general education requirements.

COMM 122	English Composition	3
COMM 219	Speech	3
or CHIN 310	Speech in Chinese II	

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or COMM 420 & COMM 430	Advanced Technical Communication I and Advanced Technical Communication II	
COMM 221	Technical Communication	3
or COMM 222	Business Communication	
or COMM 223	Intelligence Communication	
or COMM 226	User Experience (UX) Writing	
or COMM 355	Creative Writing	

Humanities

HUMN courses with an LAS suffix (Latin American Studies) will satisfy general education requirements.

HUMN 112	The Rhetoric of Social Justice Movements and Public Advocacy	3
HUMN 118	Digital Publics and Rhetorical Theory	3
HUMN 131	History of Jazz	3
HUMN 132	History of Rock and Roll	3
HUMN 140	Western Humanities I: Antiquity and the Middle Ages	3
HUMN 141	Western Humanities II: Renaissance to Postmodern	3
HUMN 142	Introduction to Literature	3
HUMN 143	Introduction to Rhetoric	3
HUMN 144	Introduction to Art	3
HUMN 145	Themes in the Humanities	3
HUMN 146	Introduction to Music	3
HUMN 147	Digital Media Storytelling	3
HUMN 148	Art and History of Podcasting	3
HUMN 149	Writing Games: Video Games as Rhetorical Texts	3
HUMN 154	Artificial Intelligence Rhetorics	3
HUMN 162	Art of the Prehistoric and Ancient World: Caves, Kings, and Pyramids	3
HUMN 163	Art of the Classical World: Gods, Heroes, and Empire	3
HUMN 165	Travel and Adventure Nonfiction Literature	3
HUMN 172	Exploring Science Fiction Films	3
HUMN 173	Myth and the Marvel Cinematic Universe	3
HUMN 200	Warriors in World Literature	3
HUMN 210	World Culture	3
HUMN 213	Introduction to Islamic Studies	3
HUMN 220	Asian Studies	3
HUMN 240	History of Communication Technologies	3
HUMN 241	Introduction to Digital Humanities	3
HUMN 250	Generative Artificial Intelligence in Real-World Contexts	3
HUMN 256	Baseball History and Statistics	3
HUMN 300	World Literature	3
HUMN 302	Contemporary Issues in Science	3
HUMN 305	Modern Literature	3
HUMN 309	British Literature	3
HUMN 310	American Literature	3
HUMN 312	Contemporary Texts	3
HUMN 315	Studies in Drama	3
HUMN 316	Studies in Music	3
HUMN 321	Mythology	3
HUMN 322	Imagining Space in Literature and Film	3
HUMN 323	Arab Culture	3
HUMN 325	Studies in Film	3
HUMN 327	Foundations in Latin American Studies	3
HUMN 330	Values and Ethics	3

HUMN 333	How Fiction, Film and Popular Culture Represent Science and Mathematics	3
HUMN 335	Technology and Modern Civilization	3
HUMN 338	Interdisciplinary Explorations	3
HUMN 340	Aviators and Aviation in Film	3
HUMN 341	World Philosophy	3
HUMN 345	Comparative Religions	3
HUMN 350	War in Contemporary American Literature	3
HUMN 356	Audio Production and Podcasting	3
HUMN 400	Science and Aviation/Aerospace Technology in Society	3
HUMN 430	Ethics in Aviation	3
HUMN 431	Ethics and Artificial Intelligence	3

Social Sciences

COMM 332	Cross-Cultural Communication	3
COMM 336	Travel Communication	3
COMM 363	Communication and Society	3
COMM 375	The Nature of Language	3
COMM 415	Nonverbal Communication	3
ECON 200	An Economic Survey	3
ECON 210	Microeconomics	3
ECON 211	Macroeconomics	3
ECON 225	Engineering Economics	3
ECON 317	Global Economics, Politics and Culture	3
ECON 450	Econometrics through the Lens of Data Science	3
GCST 115	Introduction to International Relations	3
GCST 208	Human Geography	3
GCST 300	International Conflict Resolution	3
GCST 302	Gender Security	3
GCST 304	Political Violence	3
GCST 308	Transnational Crime	3
GCST 310	International Political Economy	3
GCST 312	Understanding the European Union	3
GCST 314	Religion, Conflict, and Peace	3
GCST 338	History and Politics of the Gulf Region	3
GOVT 320	American National Government	3
GOVT 325	International Studies	3
GOVT 331	Current Issues in America	3
GOVT 340	U.S. Foreign Policy	3
GOVT 353	Early U.S. Foreign Policy	3
GOVT 401	American Constitutional Law	3
GOVT 402	Globalization and World Politics	3
HFCT 300	Principles and Fundamentals	3
HFCT 307	Performance Processes	3
HFCT 310	Human-Computer Interaction	3
HIST 110	World History	3
HIST 119	U.S. History to 1865	3
HIST 120	U.S. History	3
HIST 130	History of Aviation in America	3
HIST 290	History of Modern Europe	3
HIST 302	Evolution of Scientific Thought	3
HIST 308	Studies in Middle Eastern History and Culture	3
HIST 310	History of Space Exploration	3
HIST 311	U.S. Military History 1775-1900	3
HIST 321	U.S. Military History 1900-Present	3
HIST 322	Modern Russian History	3
HIST 324	Topics in U.S. History	3

HIST 328	History of U.S. Intelligence	3
HIST 329	African American History	3
HIST 331	Moments of Crisis in U.S. Military History	3
PSYC 101	Introduction to Psychology	3
PSYC 222	Introduction to Industrial/Organizational Psychology	3
PSYC 302	Victimology	3
PSYC 306	Psychology of Deception Detection	3
PSYC 310	Sensation and Perception	3
PSYC 311	Sensation, Perception, and Cognition	3
PSYC 313	Psychological Profiling: Theory and Critique	3
PSYC 315	Cognitive Psychology	3
PSYC 320	Aviation Psychology	3
PSYC 321	Psychology of Gaming	3
PSYC 336	Forensic Psychology	3
PSYC 337	Criminality	3
PSYC 340	Industrial-Organizational Psychology	3
PSYC 345	Training and Development	3
PSYC 350	Social Psychology	3
PSYC 352	Personality: A Systems Approach	3
PSYC 354	Developmental Psychology	3
PSYC 355	The Psychology of Creativity and Innovation	3
PSYC 356	Sport Psychology	3
PSYC 358	Positive Psychology	3
PSYC 360	Cultural Psychology	3
PSYC 365	Abnormal Psychology	3
PSYC 370	Occupational Health and Performance	3
PSYC 401	Psychology of Leadership	3
PSYC 410	Personnel Selection and Assessment	3
PSYC 412	Drugs, Society, and Crime	3
PSYC 440	The Psychology of Resilience	3
PSYC 445	Tests and Measurements Theory	3
RSCH 200	Inquiry and Discovery: Exploring Academic Sources	3
RSCH 310	Applications of Artificial Intelligence in Research	3
SOSC 140	Introduction to Middle East Mediterranean World	3
SOSC 200	Introduction to the U.S. Legal System	3
SOSC 210	Introduction to Sociology	3
SOSC 214	Culture, History and Language I	3
SOSC 301	Introduction to Public Health Science	3
SOSC 304	Islam and Arabic Culture	3
SOSC 314	Culture, History and Language II	3
SOSC 326	Russian-U.S. Relations	3
SOSC 327	International Relations	3
SOSC 333	U.S.-Asian Relations	3
SOSC 334	Contemporary Africa and the World	3
SOSC 336	The Modern Middle East in World Affairs	3
SOSC 341	Modern U.S. Foreign Policy	3
SOSC 363	Inter-American Relations	3
SSES 110	Critical Thinking in Contemporary Problems	3
SSES 111	Countering Human Trafficking	3
SSES 401	Applied Research Methods in Security and Emergency Services	3
SSES 440	Geographic Information Systems for Disaster and Security Studies	3

Computer Science/Information Technology

BUAN 125	Foundations in Business Data Analytics	3
BUAN 222	Business Analytics Tools	3
CISE 119	Introduction to Cyber Security for Non-Majors	3
CPSC 109	Introduction to Computers and Applications	3
CPSC 118	Fundamentals of Computer Programming	3
CPSC 120	Introduction to Computing in Aviation	3
CPSC 123	Introduction to Computing for Data Analysis	3
CPSC 125	Computer Science I	3
CPSC 210	Web Page Authoring and Design	3
CPSC 223	Scientific Programming in C	3
CPSC 251	Introduction to Programming for Data Science	3
CYBR 235	Computer and Network Technologies	3
ENGR 115	Introduction to Computing for Engineers	3
GEOS 210	Introduction to Geographic Information Systems	3

Mathematics

CPSC 222	Introduction to Discrete Structures	3
DSCI 310	Data Storytelling	3
MATH 111	Pre-calculus for Aviation	3
MATH 112	Applied Calculus for Aviation	3
MATH 120	Applied College Algebra	3
MATH 140	College Algebra	3
MATH 142	Trigonometry	3
MATH 143	Precalculus Essentials	3
MATH 145	College Algebra and Trigonometry	5
MATH 201	Learning to Reason: Art and Quotient	3
MATH 202	Learning to Reason: Commerce and Flux	3
MATH 210	Introduction to Data Science	3
MATH 220	Concepts of Calculus	3
MATH 241	Calculus and Analytical Geometry I	4
MATH 242	Calculus and Analytical Geometry II	4
STAT 211	Statistics with Aviation Applications	3
STAT 222	Business Statistics	3

Physical/Life Sciences

ASTR 204	General Astronomy	3
ASTR 224	Astronomy	3
ASTR 224L	Introductory General Astronomy Laboratory	1
BIOL 120	Foundations of Biology I	3
BIOL 120L	Foundations of Biology I Laboratory	1
BIOL 121	Foundations of Biology II	3
BIOL 121L	Foundations of Biology II Laboratory	1
BIOL 245	Natural History of the Region	3
BIOL 245L	Natural Hist of the Region Laboratory	1
BIOL 330	Environmental Consulting	3
CHEM 101	Basic Chemistry	3
CHEM 110	General Chemistry I	3
CHEM 110L	General Chemistry I Laboratory	1
CHEM 111	General Chemistry II	3
CHEM 111L	General Chemistry II Laboratory	1
CHEM 113	General Chemistry for Engineering	3
CHEM 140	Chemistry for Engineers	4
CHEM 140L	Chemistry for Engineers Laboratory	1
EVSC 142	Introduction to Environmental Science	3
EVSC 304	Environmental Science	3

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EVSC 359	Self-Directed Exploration of Environmental Science	3
FRSC 220	Investigative Methodology and Forensic Science	3
FRSC 220L	Investigative Methodology and Forensic Science Laboratory	1
GEOS 215	Introduction to Geoscience	3
GEOS 220	Geography of Natural Hazards	3
HFCT 312	Ergonomics and Bioengineering	3
PHYS 102	Explorations in Physics	3
PHYS 113	Introductory Physics I	3
PHYS 113L	Introductory Physics I Laboratory	1
PHYS 116	Foundations in the Sciences	3
PHYS 117	Introductory Physics II	3
PHYS 117L	Introductory Physics II Laboratory	1
PHYS 123	Science of Flight	3
PHYS 150	Physics with Calculus I	3
PHYS 160	Physics with Calculus II	3
PHYS 161	Physics with Calculus I and II	4
PHYS 226	Physics I	3
PHYS 226L	Physics I Laboratory	1
PHYS 227	Physics II	3
WEAX 201	Introduction to Meteorology	3
WEAX 203L	Survey of Meteorology Laboratory	1
WEAX 261	Applied Climatology	3
WEAX 270	Weather Information Systems	3
WEAX 312	Mountain Meteorology	3
WEAX 321	Atmospheric Environmental Studies	3