1

B.S. in Aerospace Physiology

General Education Requirements

For a full description of Embry-Riddle General Education guidelines, please see the General Education section of this catalog. These minimum requirements are applicable to all degree programs

General Education List

Total Credits	36
Physical and Life Sciences (BIO 120, CHM 110 or PS 113)	6
Mathematics (MA 210 required)	6
Computer Science (CS 118 or CS 223 or EGR 115 or CYB 235)	3
Humanities or Social Sciences - Upper level	3
Humanities or Social Sciences - Lower or Upper level	3
Social Sciences - Lower level	3
Humanities - Lower level	3
Communication Theory and Skills (COM 122, COM 219, COM 221)	9

Aerospace Physiology Core Requirements (63

hours)

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BIO 110	Research Methods I	1
BIO 111	Research Symposium	1
BIO 120	Foundations of Biology I	3
BIO 120L	Foundations of Biology I Laboratory	1
BIO 121	Foundations of Biology II	3
BIO 121L	Foundations of Biology II Lab	1
BIO 215	Genetics	3
BIO 215L	Genetics Laboratory	1
BIO 305	Human Anatomy and Physiology I	3
BIO 305L	Human Anatomy & Physiology Laboratory	1
BIO 306	Human Anatomy and Physiology II	3
BIO 306L	Human Anatomy and Physiology II Laboratory	1
BIO 405	Molecular and Cell Biology	3
BIO 405L	Molecular and Cell Biology Laboratory	1
BIO 450	Exercise Physiology and Human Performance	3
CHM 110	General Chemistry I	3
CHM 110L	General Chemistry I Laboratory	1
CHM 111	General Chemistry II	3
CHM 111L	General Chemistry II Laboratory	1
CHM 210	Organic Chemistry I	3
CHM 210L	Organic Chemistry I Laboratory	1
CHM 211	Organic Chemistry II	3
or CHM 310	Biochemistry	
CHM 211L	Organic Chemistry II Laboratory	1
or CHM 310L	Biochemistry Laboratory	
HF 300	Human Factors I: Principles and Fundamentals	3
HF 440	Aerospace Physiology	3
or AS 357	Flight Physiology	
MA 222	Business Statistics	3
PS 113	Introductory Physics I	3
PS 113L	Introductory Physics I Laboratory	1
PS 117	Introductory Physics II	3

UNIV 101	College Success	1
Total Credits		63

Specified Electives (12-13 hours)

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BIO 211	Research	1
BIO 216	Microbiology	3
BIO 216L	Microbiology Laboratory	1
BIO 299	Special Topics in Biology	1-6
BIO 311	Research	1
BIO 321	Behavioral Neuroscience I	3
BIO 322	Behavioral Neuroscience II	3
BIO 335	Cell Signaling and Disease	3
BIO 399	Special Topics in Biology	1-6
BIO 411	Research Symposium II	1
BIO 440	Clinical Rotation	3
BIO 444	Immunology	3
BIO 499	Special Topics in Biology	1-6
CHM 211	Organic Chemistry II	3
CHM 211L	Organic Chemistry II Laboratory	1
CHM 310	Biochemistry	3
CHM 310L	Biochemistry Laboratory	1
ES 315	Space Environment and Effects	3
HF 312	Ergonomics and Bioengineering	3
HF 321	Psychopharmacology	3
HF 326	Human Performance in Extreme Environments	3
HF 399	Special Topics in Human Factors	1-6
HF 499	Special Topics in Human Factors	1-6
ME 320	Fundamentals of Biomechanics	3
ME 442	Biofluid Mechanics	3
PSY 101	Introduction to Psychology *	3
PSY 310	Sensation and Perception	3
PSY 320	Aviation Psychology	3
PSY 335	Physiological Psychology	3
SF 315	Environmental Compliance and Safety	3
SF 355	Industrial Hygiene and Toxicology	3
SP 220	Life Support Systems	3
Total		12-13

Open Electives

Open Electives - 100-400 Level	6
Open Electives - 300-400 Level	9
Total Credits	15
Total Degree Credits	120-121

* PSY 101 must be taken as a Specified Elective if not completed as a lower-level General Education Social Science requirement.