

B.S. in Meteorology

Daytona Beach Program Requirements

General Education Requirements	38
Core Requirements	48
Program Support Courses	14
Electives	20
Total Credits	120

General Education Requirements

Communication	9
COMM 122 English Composition	
COMM 219 Speech	
COMM 221 Technical Communication	
Humanities - Lower Level	3
Social Sciences - Lower Level	3
Humanities/Social Sciences - Lower or Upper Level	3
Humanities/Social Sciences - Upper Level	3
Computer Science/Information Technology	3
CPSC 118 Fundamentals of Computer Programming or ENGR 119 Introduction to Computing for Engineers	
Mathematics	8
MATH 241 Calculus and Analytical Geometry I	
MATH 242 Calculus and Analytical Geometry II	
Physical/Life Sciences	6
PHYS 150 Physics with Calculus I	
PHYS 160 Physics with Calculus II	
Total Credits	38

Core Requirements

WEAX 201 Introduction to Meteorology	3
WEAX 272 Meteorological Instruments and Data Analysis	3
WEAX 325 General Meteorology	3
WEAX 327 Introduction to Weather Analysis and Forecasting	3
WEAX 365 Satellite and Radar Weather Interpretation	3
WEAX 367 Thermodynamic Meteorology	3
WEAX 368 Physical Meteorology	3
WEAX 374 Dynamic Meteorology I	3
WEAX 375 Dynamic Meteorology II	3
WEAX 378 Synoptic Analysis and Forecasting	3
WEAX 381 Climate Dynamics	3
WEAX 422 Meteorological Statistics and Data Analysis	3
WEAX 462 Numerical Weather Prediction	3
WEAX 466 Advanced Synoptic Analysis and Forecasting	3
WEAX 478 Boundary Layer and Mesoscale Meteorology	3
WEAX 482 Research Methods in Meteorology	3
Total Credits	48

Program Support Courses

CHEM 110 General Chemistry I	3
CHEM 110L General Chemistry I Laboratory	1
MATH 243 Calculus and Analytical Geometry III	4
MATH 345 Differential Equations and Matrix Methods	4
PHYS 113L Introductory Physics I Laboratory	1

UNIV 101 College Success	1
Total Credits	14

Electives

Choose One Lower or Upper Level Specified Elective:	3
CIVE 417 Air Pollution	
DSCI 412 Data Visualization	
DSCI 440 Data Mining	
GEOS 210 Introduction to Geographic Information Systems	
GEOS 310 Advanced Geographic Information Systems	
MATH 305 Introduction to Scientific Computing	
MATH 348 Numerical Methods	
MATH 392 Applied Linear Algebra	
MATH 412 Probability and Statistics	
MATH 453 High Performance Scientific Computing	
Any WEAX Course Numbered 200-499, Except WEAX 363	
Choose One Upper Level Specified Elective:	3
CIVE 417 Air Pollution	
DSCI 412 Data Visualization	
DSCI 440 Data Mining	
GEOS 310 Advanced Geographic Information Systems	
MATH 305 Introduction to Scientific Computing	
MATH 348 Numerical Methods	
MATH 392 Applied Linear Algebra	
MATH 412 Probability and Statistics	
MATH 453 High Performance Scientific Computing	
Any WEAX Course Numbered 300-499, Except WEAX 363	
Open Electives	14
Total Credits	20

Suggested Plan of Study

Year One

Requirements	Credits
COMM 122 - English Composition	3
CHEM 110 - General Chemistry I	3
CHEM 110L - General Chemistry I Laboratory	1
MATH 241 - Calculus and Analytical Geometry I	4
UNIV 101 - College Success	1
WEAX 201 - Introduction to Meteorology	3
Semester Hours	15

Requirements	Credits
COMM 219 - Speech	3
CPSC 118 - Fundamentals of Computer Programming	3
HUMN 14X Elective	3
MATH 242 - Calculus and Analytical Geometry II	4
Social Sciences - Lower Level	3
Semester Hours	16

Total Credits

Total Hours for All Requirements: 31

Year Two

Requirements	Credits
MATH 243 - Calculus and Analytical Geometry III	4
PHYS 113L - Introductory Physics I Laboratory	1
PHYS 150 - Physics with Calculus I	3
WEAX 325 - General Meteorology	3
Open Elective	3
Semester Hours	14

Requirements	Credits
MATH 345 - Differential Equations and Matrix Methods	4
PHYS 160 - Physics with Calculus II	3
WEAX 272 - Meteorological Instruments and Data Analysis	3
WEAX 365 - Satellite and Radar Weather Interpretation	3
WEAX 367 - Thermodynamic Meteorology	3
Semester Hours	16

Total Credits

Total Hours for All Requirements: 30

Year Three

Requirements	Credits
WEAX 327 - Introduction to Weather Analysis and Forecasting	3
WEAX 368 - Physical Meteorology	3
WEAX 374 - Dynamic Meteorology I	3
Specified Elective - Lower or Upper Level	3
Humanities/Social Sciences - Lower or Upper Level	3
Semester Hours	15

Requirements	Credits
COMM 221 - Technical Communication	3
WEAX 375 - Dynamic Meteorology II	3
WEAX 378 - Synoptic Analysis and Forecasting	3
Specified Elective - Upper Level	3
Open Elective	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 30

Year Four

Requirements	Credits
Humanities/Social Sciences - Upper Level	3
WEAX 422 - Meteorological Statistics and Data Analysis	3
WEAX 462 - Numerical Weather Prediction	3
WEAX 466 - Advanced Synoptic Analysis and Forecasting	3

Open Elective	3
Semester Hours	15

Requirements	Credits
WEAX 381 - Climate Dynamics	3
WEAX 478 - Boundary Layer and Mesoscale Meteorology	3
WEAX 482 - Research Methods in Meteorology	3
Open Elective	3
Open Elective	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 30