

University of North Georgia

Physics- Astrophysics Concentration

Name: ID#: Catalog: Grad. Semester:

Institutional Priority (7 hrs.)

Course	Sem.	Hrs.	Grd.
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Modern Lang.*

Global

**Modern language courses at the 1001 and 1002 level are 4 credit hours.*

Mathematics & Quantitative Skills* (3 hrs.)

Math

**Complete by 30 hours.*

Political Science and U.S. History (3 hrs.)

Citizenship

Arts, Humanities, and Ethics (6 hrs.)

Lit or Lang.

Fine Arts/Phil.

Communicating in Writing* (6 hrs.)

English 1101

English 1102

**A grade of C or higher is required. Complete by 30 hours.*

Technology, Mathematics, & Sciences (11 hrs.)

Lab Science

Lab Science

Math & Tech.

Social Sciences (6 hrs.)

Behavioral Sci.

Social Science

Field of Study (18 hrs.)

Major Courses (25 or 37 hrs.)

Course	Sem.	Hrs.	Grd.
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**required if not taken in IMPACTS*

Astrophysics Concentration (9 hrs.)

Guided Electives (6 hrs.)

Other Requirements (if not taken in IMPACTS)

Electives to bring total hours to 120 hours

Comments:

Graduation Requirements:

US History	GA History
US Constitution	GA Constitution
39 Hours at 3/4000 Level	30 Residency Hours
Minimum 2.0 Institutional & Cumulative GPA	
Minimum 60 Core Hours & 120 Semester Hours	
21 Hours at the 3000/4000 Level in Major	

Military Science - Cadets Only

Course	Hrs.	Chk.	Course	Hrs.	Chk.
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PME Requirement for Contracting Cadets

Course	Sem.	Hrs.	Grd.
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UNIVERSITY OF NORTH GEORGIA CORE IMPACTS

Courses may have prerequisites or registration restrictions.
Review course descriptions in the Academic Catalog before registering.
Courses may appear in multiple areas, but cannot be applied to more than one area.

INSTITUTIONAL PRIORITY (7 HOURS)		
MODERN LANGUAGE (3-4 HOURS). CHOOSE ONE:		
Any Non-English Language at the 1001, 1002, 2001, or 2002 Level		3-4
GLOBAL (3-4 HOURS). CHOOSE ONE OR TWO:		
ANTH 1102	Introduction to Anthropology	3
CGLO 1503	Contemporary Global Topics	3
COMM 1503	Intercultural Communication	3
DVRS 1503	Studies in Diversity Issues	3
ENGL 2111	World Literature I	3
ENGL 2112	World Literature II	3
ENGL 2160	Multicultural American Literature	3
ENST 2030	Environmental Studies & Sustainability	3
GEOG 1101	Introduction to Human Geography	3
GEOG 1102	World Regional Geography	3
HIST 1111	World History I	3
HIST 1112	World History II	3
HIST 2860/RELG 2860	History of World Religions	3
INED 2902/2903	Special Topics in International Perspectives	2-3
PHIL 2200	Ethics from a Global Perspective	3
POLS 1153	Global Citizenship	3
POLS 2301	Introduction to Comparative Politics	3
POLS 2401	Global Issues	3
SOCI 1160	Introduction to Social Problems	3
MATHEMATICS & QUANTITATIVE SKILLS (3 HOURS)		
MATHEMATICS (3 HOURS). CHOOSE ONE:		
MATH 1001	Quantitative Skills & Reasoning	3
MATH 1101	Mathematical Models	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	3
MATH 1450 (1501)	Calculus I (<i>1 hour can be used elsewhere</i>)	4
<i>MATH 1111 or higher required for Nursing majors.</i>		
<i>MATH 1111 recommended for Business majors (required for BBA degrees).</i>		
<i>MATH 1113 or 1450 required for all College of Science and Mathematics degrees.</i>		
POLITICAL SCIENCE AND U.S. HISTORY (3 HOURS)		
CITIZENSHIP (3 HOURS). CHOOSE ONE:		
HIST 2111	U.S. History I	3
HIST 2112	U.S. History II	3
POLS 1101	American Government	3
ARTS, HUMANITIES, & ETHICS (6 HOURS)		
LITERATURE OR LANGUAGE (3 HOURS) CHOOSE ONE:		
Any Non-English Language at the 2001 or 2002 Level		3
ENGL 2111	World Literature I	3
ENGL 2112	World Literature II	3
ENGL 2115	Gender and Literature	3
ENGL 2121	British Literature I	3
ENGL 2122	British Literature II	3
ENGL 2131	American Literature I	3
ENGL 2132	American Literature II	3
ENGL 2143	African American Literature	3
ENGL 2145	Native American Literature	3
ENGL 2150/MDST 2150	Literature and Film	3
ENGL 2160	Multicultural American Literature	3
ENGL 2165	Survey of Latina/o U.S. Literature	3
<i>Note: A "C" or better in ENGL 1102 is a prerequisite for ENGL 21XX and MDST 2150.</i>		
FINE ARTS OR PHILOSOPHY (3 HOURS). CHOOSE ONE:		
ART(S) 1100	Art Appreciation	3
ART 2510	Introduction to Art History I	3
ART 2520	Introduction to Art History II	3
COMM 1110	Public Speaking	3
COMM 2050	Media, Culture, and Society	3
MDST 1110	Film Appreciation	3
MUSC 1100	Music Appreciation	3
PHIL 2010	Introduction to Philosophy	3
PHIL 2200	Ethics from a Global Perspective	3
THEA 1100	Theatre Appreciation	3

COMMUNICATING IN WRITING (6 HOURS)		
WRITING (6 HOURS). TAKE BOTH:		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
<i>Note: A "C" or better is required in both ENGL 1101 & ENGL 1102.</i>		
TECHNOLOGY, MATHEMATICS, & SCIENCES (11 HOURS)		
STUDENTS SHOULD CONSULT WITH AN ADVISOR:		
STEM MAJORS (8 HOURS). CHOOSE TWO, IN A SEQUENCE:		
NON-SCIENCE MAJORS (8 HOURS). CHOOSE ANY TWO:		
ASTR 1010/L	Astronomy of the Solar System and Lab	4
ASTR 1020/L	Stellar and Galactic Astronomy and Lab	4
BIOL 1012K	Introduction to Biology II and Lab	4
BIOL 1101K/1011K	Biology: A Human Perspective/Intro. to Biology I and Lab	4
BIOL 1102K	Introduction to Ecology and Lab	4
BIOL 1107K	Principles of Biology I and Lab	4
BIOL 1108K	Principles of Biology II and Lab	4
BIOL 1260K	Environmental Science and Lab	4
CHEM 1151/L (1151K)	Survey of Chemistry I and Lab	4
CHEM 1152/L (1152K)	Survey of Chemistry II and Lab	4
CHEM 1211/L (1211K)	Principles of Chemistry I and Lab	4
CHEM 1212/L (1212K)	Principles of Chemistry II and Lab	4
ENVS 2111K	Physical Environmental Science and Lab	4
ENVS 2112K	Environmental Management & Sustainability and Lab	4
GEOG 1111K	Introduction to Physical Geography and Lab	4
GEOG 1112/L	Introduction to Weather & Climate and Lab	4
GEOG/GEOL 1530K	Introduction to Oceanography and Lab	4
GEOL 1101K	Survey of Environmental Geohazards and Lab	4
GEOL 1121K	Physical Geology and Lab	4
GEOL 1122K	Historical Geology and Lab	4
PHYS 1111/L (1111K)	Introductory Physics I and Lab	4
PHYS 1112/L (1112K)	Introductory Physics II and Lab	4
PHYS 2211/L (2211K)	Principles of Physics I and Lab	4
PHYS 2212/L (2212K)	Principles of Physics II and Lab	4
MATHEMATICS AND TECHNOLOGY (3 HOURS). CHOOSE ONE:		
MATH 1113	Pre-Calculus	3
MATH 1401	Elementary Statistics	3
MATH 1450 (1501)	Calculus I (<i>1 hour can be used elsewhere</i>)	4
MATH 2040	Brief Calculus	3
MATH 2460	Calculus II (<i>1 hour can be used elsewhere</i>)	4
MATH 2510	Introduction to Discrete Mathematics	3
CSCI 1250	Information Technologies (<i>non-science majors</i>)	3
CSCI 1301 (1301K)	Computer Science I	4
CSCI 1371	Computing for Scientists and Engineers*	4
DATA 1501	Introduction to Data Science (<i>non-science majors</i>)	3
GISC 2011/L	Geographic Information Science and Lab	3
<i>*Designed for students majoring in Physics or Dual Degree/Engineering Programs.</i>		
SOCIAL SCIENCES (6 HOURS)		
BEHAVIORAL SCIENCE (3 HOURS). CHOOSE ONE:		
ANTH 1102	Introduction to Anthropology	3
ECON 2105	Principles of Macroeconomics	3
ECON 1101	Economics of Financial Literacy	3
PSYC 1101	Introduction to Psychology	3
SOCI 1101	Introduction to Sociology	3
SOCIAL SCIENCE (3 HOURS). CHOOSE ONE:		
ENST 2030	Environmental Studies & Sustainability	3
GEOG 1101	Introduction to Human Geography	3
GEOG 1102	World Regional Geography	3
HIST 1111	World History I	3
HIST 1112	World History II	3
HIST 2111	U.S. History I	3
HIST 2112	U.S. History II	3
POLS 1101	American Government	3
POLS 2301	Introduction to Comparative Politics	3
POLS 2401	Global Issues	3
FIELD OF STUDY (18 HOURS)		
COURSES RELATED TO YOUR MAJOR PROGRAM OF STUDY, CHOSEN WITH YOUR ADVISOR.		

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Notes

- Students pursuing a Bachelor's degree are encouraged to begin taking 3/4XXX level courses once they have met the prerequisites to do so.
- IMPACTS courses can be taken in any order and/or can be taken later to allow students to take major courses sooner.
- All students must complete Writing and Math IMPACTS requirements within the first 30 credit hours.
- A "C" or better grade is required in ENGL 1101 and ENGL 1102.
- Check all courses for prerequisites to ensure eligibility to enroll.
- Minimum 120 hrs. required to complete a Baccalaureate degree.
- Minimum institutional GPA and overall GPA of 2.0 required for graduation. Specific majors and degrees may have higher GPA requirements for graduation.

Major Information