University of North Georgia

Math/Engineering Dual Degree

Name: ID#: Catalog: Grad. Semester:

Institutional Priority (7 hrs.)

Course

Sem. Hrs. Grd.

Major Courses (23 hrs.)

^ '

Sem. Hrs. Grd.

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.

Electives (Brings total number of hours to 90)

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.)

Engineering Programs:

All courses offered by the department must have a grade of "C" or higher.

- Georgia Tech
- Clemson University
- Mercer University
- Kennesaw State University
- Georgia Southern University
- University of Georgia

Students must meet Admissions requirements for Engineering programs, and are not guaranteed admission to a program. Please speak with your advisor regarding transferring.

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.

PME Requirement for Contracting Cadets

Hrs. Grd.

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.

| IN | STITUTIONAL PRIORITY (7 HOURS) | |
|--|--|---------------------------------------|
| MODERN LANGUAGE | (3-4 HOURS). CHOOSE ONE: | |
| Any Non-English Langua | age 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 |
| NED 2902/2903 | Special Topics in International Perspectives | 2-3 |
| PHIL 2200 | Ethics from a Global Perspective | 3 |
| POLS 1153 | Global Citzenship | 3 |
| POLS 2301 | Introduction to Comparative Politics | 3 |
| POLS 2401 | Global Issues | 3 |
| SOCI 1160 | Introduction to Social Problems | 3 |
| MATHEMA | ATICS & QUANTITATIVE SKILLS (3 HOURS) | |
| MATHEMATICS (3 HOL | JRS). 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 (1 hour can be used elsewhere) | 4 |
| MATH MATH 1111 recom MATH 1113 or 1450 r | I 1111 or higher required for Nursing majors. Imended for Business majors (required for BBA degra required for all College of Science and Mathematics of | ees). |
| MATH MATH 1111 recom MATH 1113 or 1450 r POLITICA CITIZENSHIP (3 HOUR: | I 1111 or higher required for Nursing majors. Interpretation of the Markette o | ees). |
| MATH MATH 1111 recom MATH 1113 or 1450 r POLITICA CITIZENSHIP (3 HOURS HIST 2111 | I 1111 or higher required for Nursing majors. Interpretation of the Markette o | ees). |
| MATH MATH 1111 recom MATH 1113 or 1450 r POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 | I 1111 or higher required for Nursing majors. Interpretation of the properties of the second | ees). degrees. |
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| WRITING (6 HOURS). | TAKE BOTH: | Ī |
|---------------------|---|----|
| ENGL 1101 | English Composition I | T |
| ENGL 1102 | English Composition II | + |
| | r better is required in both ENGL 1101 & ENGL 1102. | _ |
| | GY, MATHEMATICS, & SCIENCES (11 HOURS) | |
| | | _ |
| | CONSULT WITH AN ADVISOR: | _ |
| • | URS). CHOOSE TWO, IN A SEQUENCE: | _ |
| | RS (8 HOURS). CHOOSE ANY TWO: | _ |
| ASTR 1010/L | Astronomy of the Solar System and Lab | 1 |
| ASTR 1020/L | Stellar and Galactic Astronomy and Lab | 1 |
| BIOL 1012K | Introduction to Biology II and Lab | |
| BIOL 1101K/1011K | Biology: A Human Perspective/Intro. to Biology I and Lab | |
| BIOL 1102K | Introduction to Ecology and Lab | T |
| BIOL 1107K | Principles of Biology I and Lab | T |
| BIOL 1108K | Principles of Biology II and Lab | Ť |
| BIOL 1260K | Environmental Science and Lab | † |
| | Survey of Chemistry I and Lab | + |
| , , | • | + |
| CHEM 1152/L (1152K) | • | + |
| | Principles of Chemistry I and Lab | + |
| | Principles of Chemistry II and Lab | + |
| ENVS 2111K | Physical Environmental Science and Lab | 1 |
| ENVS 2112K | Environmental Management & Sustainability and Lab | 1 |
| GEOG 1111K | Introduction to Physical Geography and Lab | |
| GEOG 1112/L | Introduction to Weather & Climate and Lab | |
| GEOG/GEOL 1530K | Introduction to Oceanography and Lab | T |
| GEOL 1101K | Survey of Environmental Geohazards and Lab | Ť |
| GEOL 1121K | Physical Geology and Lab | Ť |
| GEOL 1122K | Historical Geology and Lab | † |
| | Introductory Physics I and Lab | † |
| PHYS 1112/L (1112K) | Introductory Physics II and Lab | + |
| ` , | | + |
| PHYS 2211/L (2211K) | Principles of Physics I and Lab | + |
| PHYS 2212/L (2212K) | Principles of Physics II and Lab | _ |
| | ECHNOLOGY (3 HOURS). CHOOSE ONE: | _ |
| MATH 1113 | Pre-Calculus | + |
| MATH 1401 | Elementary Statistics | + |
| MATH 1450 (1501) | Calculus I (1 hour can be used elsewhere) | 1 |
| MATH 2040 | Brief Calculus | 1 |
| MATH 2460 | Calculus II (1 hour can be used elsewhere) | 1 |
| MATH 2510 | Introduction to Discrete Mathematics | |
| CSCI 1250 | Information Technologies (non-science majors) | T |
| CSCI 1301 (1301K) | Computer Science I | T |
| CSCI 1371 | Computing for Scientists and Engineers* | Ť |
| DATA 1501 | Introduction to Data Science (non-science majors) | Ť |
| GISC 2011/L | Geographic Information Science and Lab | † |
| | ts majoring in Physics or Dual Degree/Engineering Progran | ns |
| | SOCIAL SCIENCES (6 HOURS) | |
| DELLANGODAL COIENG | | |
| | E (3 HOURS). CHOOSE ONE: | _ |
| ANTH 1102 | Introduction to Anthropology | + |
| ECON 2105 | Principles of Macroeconomics | 1 |
| ECON 1101 | Economics of Financial Literacy | 1 |
| PSYC 1101 | Introduction to Psychology | |
| SOCI 1101 | Introduction to Sociology | |
| SOCIAL SCIENCE (3 H | IOURS). CHOOSE ONE: | |
| ENST 2030 | Environmental Studies & Sustainability | T |
| GEOG 1101 | Introduction to Human Geography | Ť |
| GEOG 1102 | World Regional Geography | † |
| HIST 1111 | World History I | + |
| | • | + |
| HIST 1112 | World History II | + |
| HIST 2111 | U.S. History I | + |
| HIST 2112 | U.S. History II | 1 |
| POLS 1101 | American Government | 1 |
| POLS 2301 | Introduction to Comparative Politics | |
| | | |
| POLS 2401 | Global Issues | |

Revised 2025

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