University of North Georgia

Chemistry

	(Chemistry	
Name:	ID#:	Catalog:	Grad. Semester:
Institutional Priority (7 hrs.) Course 1. Modern Lang.* 2. Global	Sem. Hrs. Grd.	Major Courses (29 hrs.) _{Course}	Sem. Hrs. Grd. Grd.
*Modern language courses at the 1001 and 100	2 level are 4 credit hours.		
Mathematics & Quantitative Sk 1. Math* *MATH 1113 or higher required. *Complete by 30 hours.	ills* (3 hrs.)		
Political Science and U.S. Histo 1. Citizenship	ory (3 hrs.)		
Arts, Humanities, and Ethics (6	hrs.)		
1. Lit. or Lang.		Guided Electives (12 hrs.)	
2. Fine Arts/Phil.			
Communicating in Writing* (6 h	irs.)		
1. English 1101		Other Beguirements (8 hrs	if not taken in Institutional or STEN
 2. English 1102 *A grade of C or higher is required for ENGL 1: *Complete by 30 hours. 	101 & 1102.	Other Requirements (o hrs,	, if not taken in Institutional or STEN
Technology, Mathematics, & Scie	ences (11 hrs.)	Electives (bring total credit	s to 120)
1. Lab Science		Electives (bring total credit	3 (0 120)
2. Lab Science			
3. Math & Tech.			
Social Sciences (6 hrs.)			
1. Behavioral Sci.			
2. Social Science			
		Comments:	
Field of Study (18 hrs.)			
1.			
2.			
3.			
4.			
5.			
Graduation Requirements:			
-	GA History		
US History US Constitution	GA Constitution		
39 Hours at 3/4000 Level	30 Residency Hours	Military Science - Cac	dets Only
Minimum 2.0 Institutional & C Minimum 60 Core Hours & 12	cumulative GPA	Course Hrs. Chk.	
21 Hours at the 3000/4000 Le	evel in Major		
Signatures (original	only) Date	PME Requirement for	Contracting Cadets
			CONTRACTING CAUGES
Student:		PME Requirement for Course	Sem. Hrs. Grd.

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UNIVERSITY OF NORTH GEORGIA CORE IMPACTS

Courses may have prerequisites or registration restrictions.

COMMUNICATING IN WRITING (6 HOURS)

Review course des urses may appear in mi	inipic areas, but cannot be applied to more that	in one a
INS	TITUTIONAL PRIORITY (7 HOURS)	
MODERN LANGUAGE (3-4 HOURS). CHOOSE ONE:	
Any Non-English Langua	ge at the 1001, 1002, 2001, or 2002 Level	3-4
GLOBAL (3-4 HOURS).	CHOOSE ONE OR TWO:	
NTH 1102	Introduction to Anthropology	3
GLO 1503	Contemporary Global Topics	3
COMM 1503	Intercultural Communication	3
OVRS 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
IIST 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	2-0
POLS 1153	• • • • • • • • • • • • • • • • • • •	3
	Global Citzenship	
POLS 2301 POLS 2401	Introduction to Comparative Politics	3
	Global Issues	3
SOCI 1160	Introduction to Social Problems TICS & QUANTITATIVE SKILLS (3 HOURS)	3
	· · · · ·	
MATHEMATICS (3 HOU	<i>,</i>	
MATH 1001	Quantitative Skills & Reasoning	3
MATH 1101	Mathematical Models	3
IATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	3
MATH 1450 (1501)	Calculus I (1 hour can be used elsewhere)	4
	nended for Business majors (required for BBA degre auired for BIOL, CHEM, CSCI, MATH, REP, PHYS I	,
MATH 1113 or 1450 re POLITICA	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I L SCIENCE AND U.S. HISTORY (3 HOURS)	,
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I L SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE:	majors.
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I L SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE: U.S. History I	majors.
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I L SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE: U.S. History I U.S. History II	majors.
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I L SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE: U.S. History I U.S. History II American Government	majors.
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I L SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE: U.S. History I U.S. History II	majors.
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101 ARTS	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I L SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE: U.S. History I U.S. History II American Government	majors.
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG Any Non-English Languag	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE: U.S. History I U.S. History II American Government S, HUMANITIES, & ETHICS (6 HOURS) UAGE (3 HOURS) CHOOSE ONE: ge at the 2001 or 2002 Level	majors.
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG Any Non-English Languag	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE: U.S. History I U.S. History II American Government B, HUMANITIES, & ETHICS (6 HOURS) UAGE (3 HOURS) CHOOSE ONE:	3 3 3
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MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG Any Non-English Languag ENGL 2111 ENGL 2112 ENGL 2115	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government B. HUMANITIES, & ETHICS (6 HOURS) UAGE (3 HOURS) CHOOSE ONE: ge at the 2001 or 2002 Level World Literature I World Literature II	3 3 3 3 3 3 3 3 3 3
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG Any Non-English Languag ENGL 2111 ENGL 2112 ENGL 2115 ENGL 2121	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government HUMANITIES, & ETHICS (6 HOURS) UAGE (3 HOURS) CHOOSE ONE: ge at the 2001 or 2002 Level World Literature I World Literature II Gender and Literature	3 3 3 3 3 3 3 3 3 3 3 3 3 3
MATH 1113 or 1450 re POLITICA CITIZENSHIP (3 HOURS HIST 2111 HIST 2112 POLS 1101 CITIZENSHIP (3 HOURS LITERATURE OR LANG Any Non-English Languag ENGL 2111 ENGL 2112 ENGL 2115 ENGL 2121 ENGL 2122	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government HUMANITIES, & ETHICS (6 HOURS) UAGE (3 HOURS) CHOOSE ONE: ge at the 2001 or 2002 Level World Literature I Gender and Literature British Literature I	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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MATH 1113 or 1450 re POLITICAI CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG Any Non-English Language ENGL 2111 ENGL 2112 ENGL 2112 ENGL 2112 ENGL 2112 ENGL 2121 ENGL 2132 ENGL 2132 ENGL 2143 ENGL 2150/MDST 2150 ENGL 2165 Note: A "C" or better in E FINE ARTS OR PHILOSO ART(S) 1100 ART 2520	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government British CHOOSE ONE: Deat the 2001 or 2002 Level World Literature I World Literature II Gender and Literature British Literature II American Literature I African American Literature Native American Literature Literature and Film Multicultural American Literature Survey of Latina/o U.S. Literature NGL 1102 is a preequisite for ENGL 21XX and MD DPHY (3 HOURS). CHOOSE ONE: Art Appreciation Introduction to Art History I Introduction to Art History I	3 3 <td< td=""></td<>
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MATH 1113 or 1450 re POLITICAI CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG Any Non-English Language ENGL 2112 ENGL 2112 ENGL 2112 ENGL 2112 ENGL 2113 ENGL 2121 ENGL 2131 ENGL 2143 ENGL 2145 ENGL 2150/MDST 2150 ENGL 2165 Note: A "C" or better in E FINE ARTS OR PHILOSO ART 2510 ART 2520 COMM 1110 COMM 2050	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS I SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government British CHORS) CHOOSE ONE: ge at the 2001 or 2002 Level World Literature I World Literature II Gender and Literature British Literature I American Literature I American Literature I American Literature II American Literature II American Literature II African American Literature Native American Literature Survey of Latina/o U.S. Literature NGL 1102 is a prerequisite for ENGL 21XX and MDA OPHY (3 HOURS). CHOOSE ONE: Art Appreciation Introduction to Art History I Introduction to Art History II Public Speaking Media, Culture, and Society	3 3 <td< td=""></td<>
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Ethics from a Global Perspective

Theatre Appreciation

PHIL 2200

THEA 1100

WRITING (6 HOURS).		T
ENGL 1101	English Composition I	-
ENGL 1102	English Composition II	
	r better is required in both ENGL 1101 & ENGL 1102.	
	OGY, MATHEMATICS, & SCIENCES (11 HOURS)	
•	HOURS). A CHEMISTRY SEQUENCE IS REQUIRED:	
STEM MAJORS (8 HO	URS). CHOOSE TWO, IN A SEQUENCE:	
ASTR 1010/L	Astronomy of the Solar System and Lab	-
ASTR 1020/L	Stellar and Galactic Astronomy and Lab	L
BIOL 1101K/1011K	Biology: A Human Perspective/Intro. to Biology I and Lab	Τ
BIOL 1102K	Introduction to Ecology and Lab	
BIOL 1107K	Principles of Biology I and Lab	Τ
BIOL 1108K	Principles of Biology II and Lab	t
BIOL 1101K/1011K		Ť
BIOL 1260K	Biology: A Human Perspective/Intro. to Biology I and Lal Environmental Sciences and Lab	
		L
CHEM 1151/L (1151K)		
CHEM 1152/L (1152K)	Survey of Chemistry II and Lab	1
CHEM 1211/L (1211K)	Principles of Chemistry I and Lab	
CHEM 1212/L (1212K)	Principles of Chemistry II and Lab	
ENVS 2111K	Physical Environmental Science and Lab	
ENVS 2112K	Environmental Management & Sustainability and Lab	
GEOG 1111K	Introduction to Physical Geography and Lab	Τ
GEOG 1112/L	Introduction to Weather & Climate and Lab	t
GEOL 1121K	Physical Geology and Lab	Ť
GEOL 1122K	Historical Geography and Lab	╈
		÷
PHYS 1111/L (1111K) PHYS 1112/L (1112K)	Introductory Physics I and Lab	╞
FIII3 III2/E (III2K)	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	
MATHEMATICS AND 1	TECHNOLOGY (3 HOURS). CHOOSE ONE:	_
MATH 1113	Pre-Calculus	+
MATH 1401	Elementary Statistics	+
MATH 1450 (1501)	Calculus I (1 hour can be used elsewhere)	+
MATH 2040 MATH 2460	Brief Calculus	╞
MATH 2400 MATH 2510	Calculus II (1 hour can be used elsewhere) Introduction to Discrete Mathematics	┼
CSCI 1250	Information Technologies (non-science majors)	┼
CSCI 1301 (1301K)	Computer Science I	╈
CSCI 1371	Computing for Scientists and Engineers**	t
DATA 1501	Introduction to Data Science (non-science majors)	t
GISC 2011/L	Geographic Information Science and Lab	t
*Designed for studen	ts majoring in Physics or Dual Degree/Engineering Program	ns.
	SOCIAL SCIENCES (6 HOURS)	
BEHAVIORAL SCIENC	E (3 HOURS). CHOOSE ONE:	_
ANTH 1102	Introduction to Anthropology	
ECON 2105	Principles of Macroeconomics	
PSYC 1101	Introduction to Psychology	
SOCI 1101	Introduction to Sociology	
SOCIAL SCIENCE (3 F	IOURS). CHOOSE ONE:	_
ENST 2030	Environmental Studies & Sustainability	1
GEOG 1101	Introduction to Human Geography	1
GEOG 1102	World Regional Geography	1
HIST 1111	World History I	1
HIST 1112	World History II	1
HIST 2111	U.S. History I	
HIST 2112	U.S. History II	
POLS 1101	American Government	
	Introduction to Comparative Politics	
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POLS 2301 POLS 2401	Global Issues FIELD OF STUDY (18 HOURS)	

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