University of North Georgia

Chemistry with Chemical Physics Concentration

Catalog: Name: ID#: Grad. Semester: Major Courses (29 hrs.) **Institutional Priority (7 hrs.)** Hrs. Grd. Course Sem. Hrs Grd Grd Sem Modern Lang.* 2. Global *Modern language courses at the 1001 and 1002 level are 4 credit hours. Mathematics & Quantitative Skills* (3 hrs.) *Complete by 30 hours. * MATH 1450 required. Political Science and U.S. History (3 hrs.) 1. Citizenship Arts, Humanities, and Ethics (6 hrs.) 1. Lit. or Lang. Concentration -Chemical Physics (19 hrs.) 2. Fine Arts/Phil. Communicating in Writing* (6 hrs.) 1. English 1101 English 1102 *A grade of C or higher is required. *Complete by 30 hours. Other Requirements (8hrs, if not taken in Institutional or STEM) Technology, Mathematics, & Sciences (11 hrs.) 1. Lab Science 2. Lab Science Electives (bring total credits to 120) 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 GA Constitution US** Constitution 39 Hours at 3/4000 Level 30 Residency Hours Military Science - Cadets Only Course Hrs. Chk. Course Hrs. Chk. Minimum 2.0 Institutional & Cumulative GPA Minimum 60 Core Hours & 120 Semester Hours 21 Hours at the 3000/4000 Level in Major Signatures (original only) **Date PME Requirement for Contracting Cadets** Student: Hrs. Grd.

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Advisor:

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.

	STITUTIONAL PRIORITY (7 HOURS)	
MODERN LANGUAGE (3	3-4 HOURS). CHOOSE ONE:	1
Any Non-English Languag	ge 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 INED 2902/2903	History of World Religions	3
	Special Topics in International Perspectives	2-3
PHIL 2200 POLS 1153	Ethics from a Global Perspective	3
POLS 1133 POLS 2301	Global Citzenship Introduction to Comparative Politics	3
POLS 2301 POLS 2401	Global Issues	3
SOCI 1160	Introduction to Social Problems	3
	TICS & QUANTITATIVE SKILLS (3 HOURS)	J
MATHEMATICS (3 HOUF	<u> </u>	
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
	1111 or higher required for Nursing majors.	
MATH 1113 or 1450 re	nended for Business majors (required for BBA degrees). quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo	rs.
MATH 1113 or 1450 red POLITICAL	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS)	rs.
MATH 1113 or 1450 red POLITICAL CITIZENSHIP (3 HOURS)	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS)	rs.
MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS)). CHOOSE ONE:	
MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I	3
MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II	3 3
MATH 1113 or 1450 red POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government	3 3
MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government History III American Government History III HISTORY (6 HOURS)	3 3
MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANGE	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government D. HUMANITIES, & ETHICS (6 HOURS) UAGE (3 HOURS) CHOOSE ONE:	3 3 3
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MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANG Any Non-English Language ENGL 2111 ENGL 2112 ENGL 2115	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government HIGH HUMANITIES, & ETHICS (6 HOURS) UAGE (3 HOURS) CHOOSE ONE: The period of th	3 3 3 3 3
MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANGE Any Non-English Language ENGL 2111 ENGL 2112 ENGL 2115 ENGL 2121	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L 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: July at the 2001 or 2002 Level World Literature II Gender and Literature	3 3 3 3 3 3 3
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MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANGE Any Non-English Language ENGL 2111 ENGL 2112 ENGL 2115 ENGL 2121 ENGL 2122 ENGL 2131 ENGL 2132 ENGL 2133 ENGL 2143 ENGL 2145 ENGL 2145 ENGL 2150/MDST 2150 ENGL 2160 ENGL 2160 ENGL 2165 Note: A "C" or better in E FINE ARTS OR PHILOSO ART(S) 1100	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo SCIENCE AND U.S. HISTORY (3 HOURS) CHOOSE ONE: U.S. History I U.S. History II American Government HUMANITIES, & ETHICS (6 HOURS) CHOOSE ONE: Ge at the 2001 or 2002 Level World Literature II Gender and Literature British Literature II American Literature II African American Literature Literature and Film Multicultural American Literature Survey of Latina/o U.S. Literature COPHY (3 HOURS). CHOOSE ONE:	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANGE Any Non-English Language ENGL 2111 ENGL 2112 ENGL 2115 ENGL 2121 ENGL 2121 ENGL 2122 ENGL 2131 ENGL 2132 ENGL 2143 ENGL 2143 ENGL 2145 ENGL 2145 ENGL 2160 ENGL 2160 ENGL 2160 ENGL 2160 ENGL 2165 Note: A "C" or better in E FINE ARTS OR PHILOSO ART (S) 1100 ART 2510 ART 2520 COMM 1110	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L SCIENCE AND U.S. HISTORY (3 HOURS) D. CHOOSE ONE: U.S. History I U.S. History II American Government HUMANITIES, & ETHICS (6 HOURS) LOAGE (3 HOURS) CHOOSE ONE: LOAGE (3 HOURS) CHOOSE ONE: LOAGE at the 2001 or 2002 Level World Literature II Gender and Literature British Literature II American Literature II American Literature II American Literature II African American Literature Native American Literature Literature and Film Multicultural American Literature Survey of Latina/o U.S. Literature NGL 1102 is a prerequisite for ENGL 21XX and MDST 2 DPHY (3 HOURS). CHOOSE ONE: Art Appreciation Introduction to Art History II Introduction to Art History II	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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MATH 1113 or 1450 rec POLITICAL CITIZENSHIP (3 HOURS) HIST 2111 HIST 2112 POLS 1101 ARTS LITERATURE OR LANGE Any Non-English Language ENGL 2111 ENGL 2112 ENGL 2115 ENGL 2121 ENGL 2122 ENGL 2131 ENGL 2132 ENGL 2132 ENGL 2143 ENGL 2145 ENGL 2145 ENGL 2160 ENGL 2165 Note: A "C" or better in E	quired for BIOL, CHEM, CSCI, MATH, REP, PHYS majo L 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 II Gender and Literature British Literature II American Literature II American Literature II American Literature II African American Literature Native American Literature Literature and Film Multicultural American Literature Survey of Latina/o U.S. Literature NGL 1102 is a prerequisite for ENGL 21XX and MDST 2 DPHY (3 HOURS). CHOOSE ONE: Art Appreciation Introduction to Art History II Public Speaking Media, Culture, and Society	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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Theatre Appreciation

THEA 1100

WRITING (6 HOURS).	TAKE BOTH:	,
ENGL 1101	English Composition I	
ENGL 1102	English Composition II	
Note: A "C" o	r better is required in both ENGL 1101 & ENGL 1102.	
TECHNOLO	GY, MATHEMATICS, & SCIENCES (11 HOURS)	
NURSING MAJORS (8	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	T
ASTR 1020/L	Stellar and Galactic Astronomy and Lab	t
BIOL 1101K/1011K	Biology: A Human Perspective/Intro. to Biology I and Lab	Ť
BIOL 1102K	Introduction to Ecology and Lab	+
	J.	÷
BIOL 1107K	Principles of Biology I and Lab	ŀ
BIOL 1108K	Principles of Biology II and Lab	1
BIOL 1101K/1011K	Biology: A Human Perspective/Intro. to Biology I and Lab	Τ
BIOL 1260K	Environmental Sciences and Lab	L
CHEM 1151/L (1151K)	Survey of Chemistry I and Lab	T
CHEM 1152/L (1152K)	Survey of Chemistry II and Lab	t
CHEM 1211/L (1211K)	· · · · · · · · · · · · · · · · · · ·	Ť
CHEM 1211/L (1211K)		+
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ENVS 2111K	Physical Environmental Science and Lab	ŀ
ENVS 2112K	Environmental Management & Sustainability and Lab	L
GEOG 1111K	Introduction to Physical Geography and Lab	L
GEOG 1112/L	Introduction to Weather & Climate and Lab	L
GEOL 1121K	Physical Geology and Lab	T
GEOL 1122K	Historical Geography and Lab	t
PHYS 1111/L (1111K)		Ť
PHYS 1112/L (1112K)	Introductory Physics I and Lab 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	L
MATHEMATICS AND	TECHNOLOGY (3 HOURS). CHOOSE ONE:	_
MATH 1113	Pre-Calculus	1
MATH 1401	Elementary Statistics	1
MATH 1450 (1501)	Calculus I (1 hour can be used elsewhere)	ŀ
MATH 2040	Brief Calculus	+
MATH 2460	Calculus II (1 hour can be used elsewhere)	ŀ
MATH 2510	Introduction to Discrete Mathematics	\downarrow
CSCI 1250	Information Technologies (non-science majors)	+
CSCI 1301 (1301K) CSCI 1371	Computer Science I Computing for Scientists and Engineers**	H
DATA 1501	Introduction to Data Science (non-science majors)	+
GISC 2011/L	Geographic Information Science and Lab	$^{+}$
	ts majoring in Physics or Dual Degree/Engineering Progran	
	SOCIAL SCIENCES (6 HOURS)	
BEHAVIORAL SCIENC	EE (3 HOURS). CHOOSE ONE:	
ANTH 1102	Introduction to Anthropology	Т
ECON 2105	Principles of Macroeconomics	†
PSYC 1101	Introduction to Psychology	t
SOCI 1101	Introduction to Sociology	t
	IOURS). CHOOSE ONE:	
ENST 2030	Environmental Studies & Sustainability	Т
GEOG 1101	Introduction to Human Geography	$^{+}$
GEOG 1101 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	+
POLS 1101	American Government	+
DOL C 2224	Introduction to Comparative Politics	
POLS 2301 POLS 2401	Global Issues	Ť

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