

SECONDARY EDUCATION (State Requirement Minimum 2.75 Overall GPA)
PHYSICAL SCIENCE CERTIFICATION PROGRAM with a B.S. in CHEMISTRY
(Effective September 2005)

Gothic ID Number: _____
Name: _____
Address: _____
Telephone (H): _____ **Telephone (W):** _____
Initially Advised by: _____ **Date:** _____

Note: Courses numbered lower than 100 are not counted toward graduation.

All-University Requirements (AUR): 18 Credits

_____	ENGL 101	English Composition I	3 CR
_____	ENGL 102	English Composition II	3 CR
_____	FYE 1XX	First-Year Experience	3 CR
_____	MATH 112	Intermediate Algebra (or a higher level course)	3 CR
_____	GSC 101	Civilizations I	3 CR
_____	GSC 102	Civilizations II	3 CR

General Studies Areas A–F: 42 Credits Minimum

Area A Natural Science (9 CR): All students must take BIOL 130 and 131, BIOL 103 or BIOL 104, and GEOS 111.

_____	BIOL 130/131	Principles of Biology I and II	4 and 4 CR
_____	BIOL 103 or	Human Sexual Biology	3 CR
_____	BIOL 104	The Human Body	3 CR
_____	GEOS 111	Principles of Earth Science	3 CR

Area B Social Sciences (6 CR): All students must take SOC 114 and PSYC 150

_____	*SOC 114	Soc. of the Family	3 CR
_____	*PSYC 152	Adolescence to Adulthood	3 CR

Area C Arts & Media (6 CR): Students take a maximum of 3 credits in a single department.

_____	3 CR
_____	3 CR

Area D Humanities (6 CR): Students take a maximum of 3 credits in a single department.

_____	3 CR
_____	3 CR

Area E Multicultural Disciplines & Languages (6 CR): All students must take INTD 149.

_____	*INTD 149	Human & Intercultural Relations	3 CR
_____			3 CR

Area F Quantitative & Computer Literacy (6 CR): Students take a maximum of 3 credits in a single department.

_____	INTD 180*	Computer Tools for Science and Math	3 CR
_____			3 CR

* Meets New Jersey Requirements

** Prerequisite course(s) exist.

Note: It is each student's responsibility to maintain and update this advisement record and to bring it to meetings with his/her advisor.

Chemistry Major: 69 Credits Minimum (Courses with asterisks [*] have prerequisite courses)

_____	CHEM 105* **	General Chemistry I Lec	3 CR
_____	CHEM 1105* **	General Chemistry I Lab	2 CR
_____	CHEM 106**	General Chemistry II Lec	3 CR
_____	CHEM 1106**	General Chemistry II Lab	2 CR
_____	CHEM 207* **	Organic Chemistry I	4 CR
_____	CHEM 208* **	Organic Chemistry II	4 CR
_____	CHEM 205* **	Analytical Chemistry Lec	3 CR
_____	CHEM 2205* **	Analytical Chemistry Lab	2 CR
_____	CHEM 316* **	Instrumental Analysis Lec	3 CR
_____	CHEM 3316* **	Instrumental Analysis Lab	2 CR
_____	CHEM 305* **	Physical Chemistry I Lec	3 CR
_____	CHEM 306* **	Physical Chemistry II Lec	3 CR
_____	CHEM 3306* **	Physical Chemistry II Lab	2 CR
_____	CHEM 307* **	Biochemistry I	4 CR
_____	CHEM 405* **	Seminar	1 CR
_____	CHEM 416* **	Advanced Inorganic Chemistry	3 CR
_____	Chemistry Elective* **	(CHEM 301, CHEM 317, CHEM 406, CHEM 412 CHEM 414, CHEM 431)	3 CR
_____	MATH 190 or 192* **	Calculus I or Calculus & Analytical Geometry I	3 or 4 CR
_____	MATH 191 or 193* **	Calculus II or Calculus & Analytical Geometry II	3 or 4 CR
_____	MATH 310 or 291* **	Differential Equations or Calculus IV	3 CR
_____	PHYS 130 or 140* **	College Physics I or Physics for Engineering I	3 CR
_____	PHYS 1130* **	College Physics I Lab	1 CR
_____	PHYS 131 or 141* **	College Physics II or Physics for Engineering II	3 CR
_____	PHYS 1131* **	College Physics II Lab	1 CR
_____	INTD 180*	Computer Tools for Science and Math	3 CR

* Meets New Jersey Requirements

** Prerequisite course(s) exist.

Note: All major courses should be completed before taking ACI 480 Internship.

Chemistry Major Advisor: _____

Certification Sequence: 30 Credits

Phase I: EDU 250 and LTED 330 must be taken prior to admission to the education program.

_____	EDU 250	The Education Challenge	3 CR
_____	EDU 301	Challenges in Urban Education	3 CR
_____	LTED 330	Focus: Reading Language & Literacy	3 CR

Phase II: EDU 330 and EDU 331 must be taken concurrently.

_____	EDU 330	Focus: Development, Behavior & Learning	3 CR
_____	EDU 331	Education Field Experience II	1 CR

Phase III: LTED 370, EDU 371 and EDU 3372 must be taken concurrently.

_____	LTED 370	Secondary Reading, Language & Literacy Workshop	2CR
_____	EDU 371	Secondary Curriculum, Methods and Materials Workshop	4CR
_____	EDU 3372	Secondary Methods of Teaching Science	2CR

Phase IV: EDU 470, LTED 470 and EDU 480, must be taken concurrently.

Methods courses are offered in Fall Semesters only.

Students must pass diagnostic Praxis before taking ACI 480.

_____	EDU 485	Classroom Management & Assessment	2 CR
_____	EDU 470	Internship Seminar	2 CR
_____	EDU 470	Concurrent Language Arts Seminar	1 CR
_____	EDU 480	Internship	8 CR

Education Advisor: _____

Graduation/certificate clearance by: _____

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