

PROGRAM: AS LIBERAL ARTS-MATH & SCIENCE

Division: Natural and Health Sciences
SCI-252 (914) 606-6912

64 Credits

Curriculum Chair

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SCI-209

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Reviewed By: _____

Date: _____

Approved By Chairperson/Dean: _____

| Course # | SEMESTER 1 | Credits | ✓ |
|----------------|------------------------------------------------------------------------------------------------|----------|---|
| ENG 101 | <i>Composition & Literature 1</i> | 3 | |
| | <i>Mathematic-(see math notes)-</i> | 4 | |
| | <i>Behavioral-</i> | 3 | |
| | <i>Science & Lab- Science sequence 1 (See Science notes e.g. Gen Bio 1)</i> | 4 | |
| | <i>PE (fitness)- _____</i> | 1 | |

| Course # | SEMESTER 3 | Credits | ✓ |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
| | Humanities- _____ | 3 | |
| | Behavioral or Social Science _____ | 3 | |
| | Complete a 2 nd science sequence in semesters 3. and 4 (see science notes) OR Take 2 mathematics courses in semesters 3 and 4. (see math list) | 4 | |
| | Elective- _____ | 3 | |
| | Elective- _____ | 3 | |

| Course # | SEMESTER 2 | Credits | ✓ |
|----------------|------------------------------------------------------------------------------------------------|----------|---|
| ENG 102 | <i>Composition & Literature 2</i> | 3 | |
| | <i>Mathematic-(see math notes)-</i> | 4 | |
| | <i>Social Science-</i> | 3 | |
| | <i>Science & Lab- Science sequence 2 (See Science notes e.g. Gen Bio 2)</i> | 4 | |
| | <i>PE (sport)- _____</i> | 1 | |

| Course # | SEMESTER 4 | Credits | ✓ |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
| | Behavioral or Social Science _____ | 3 | |
| | Humanities, Communications or English _____ | 3 | |
| | If started, finish 2 nd science sequence OR If mathematics taken in 3 rd semester, take 2 nd mathematics course.(see math list) | 4 | |
| | Elective- _____ | 4 | |
| | Elective- _____ | 4 | |

Bold italic items are Core Requirements.

NOTES:

- ***Social Science*** courses include History (HIS), Political Science (POLSC), Economics (ECON) and Geography (GEOG).
- ***Behavioral Science*** courses include Sociology (SOC), Psychology (PSYCH), Anthropology (ANTHR) and Geography (GEOG). General Psychology is the prerequisite for all upper level psychology courses.
- ***Choose ONLY those courses whose descriptions are labeled as "humanities credits" from:*** ART, COMM, DANCE, ENG, MUSIC, FILM, THEAT, ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN, PHIL.

Mathematics courses for this degree: MATH 135-College Algebra with Trigonometry, MATH 161-Pre-calculus, MATH 181-Calculus 1, MATH 191-Calculus 2, MATH 230-Calculus 3, MATH 240-Differential Equations, Linear Algebra (Start at the highest level for which high school has prepared you.). Examples of elective courses: MATH 140-Statistics.

Science (with lab) courses for this degree: BIOL 115-Gen. Biology 1 & BIOL 117-Gen Biology 2, BIOL 121-Anatomy and Physiology 1 & BIOL 123- Anatomy and Physiology 2, CHEM 107-Inorganic Chemistry 1 & CHEM 111- Inorganic Chemistry 2, CHEM 201-Organic Chemistry 1 & CHEM 205-Organic Chemistry 2, PHYSC 111-College Physics 1 & PHYSC 113-College Physics 2, PHYSC 121-Engineering Physics 1 & PHYSC 122- Engineering Physics 2. Both semesters of any sequence must be taken. One semester science courses are only accepted as electives.

**MATH/SCIENCE TRANSFER TO A FOUR YEAR COLLEGE
OR UNIVERSITY DEGREE REQUIREMENTS**

Note: ALL LAMS students should choose a transfer path

| Course Title | Biology* Transfer Path | Chemistry Transfer Path | Mathematics Transfer Path | Physics Transfer Path |
|---------------------------------------------|-----------------------------------|-------------------------------------------|-----------------------------------------------------------|--------------------------------|
| BIOL 115, 117 General Biology I & II | Required for 2nd Science Sequence | | | |
| CHEM 107, 111 Inorganic Chemistry I & II | Required for 1st Science Sequence | Required for 1st Science Sequence | | |
| CHEM 201, 205 Organic Chemistry I & II | Recommended Electives | Required for 2nd Science Sequence | | |
| MATH 181,191 Calculus I & II | Recommended Math Sequence | Required Math Sequence | Required for 1st Math Sequence | Required for 1st Math Sequence |
| MATH 230 Calculus III | | | Required for 2nd Math Sequence | Required for 2nd Math Sequence |
| MATH 240 Diff. Equations | | | Required for 2nd Math Sequence | Required for 2nd Math Sequence |
| MATH 215 Linear Algebra | | | Recommended Elective | Recommended Elective |
| PHYSC 111, 112 College Physics I & II | | Either Sequence: Recommended Electives | Either Sequence: Recommended Sequence for Science Req. | |
| PHYSC 121,122, Engineering Physics I-II | | | | Required Science Sequence |

*Please note that inorganic chemistry should be the first science sequence for the biology transfer option so that organic chemistry can be taken in the second year.