LIBERAL ARTS AND SCIENCES: SCIENCE / A.S. DEGREE

Ammerman / LABI-AS, LASC-AS, LAGE-AS, LAAS-AS, LAME-AS, LAFR-AS, LAPH-AS
Eastern / LABI-AS, LAFR-AS
Grant / LABI-AS, LAFR-AS
HEGIS Code - 5649, CIP Code - 24.0101

Admission Procedures and Requirements

Entering students must have a minimum high school average of 80 including three years of science and completion of high school mathematics sequence through Algebra2/Trig or equivalent. Students already enrolled in college need MAT111. Students are admitted on a rolling basis, fall and spring, with most students who meet minimum standards admitted.

NOTE: *Upper-level science courses are currently not offered at the Eastern Campus on a regular basis. Eastern Campus science students may be required to complete the upper-level science sequence at the Ammerman Campus.*

Biology Option (LABI-AS)

This option is designed for students planning a career in medicine, dentistry, pharmacy, scientific research, applied science, environmental science or the teaching of science in schools and colleges. Upon successful completion of this program, graduates usually transfer as juniors to four-year colleges where they complete the baccalaureate degree before proceeding to graduate school and professional study in their chosen field.

FIRST SEMESTER: 17 credits *Credits*
- ◆ BIO150: College Biology I: Cellular and Molecular Biology 4
- ◆ CHE133: College Chemistry I. 4
- ENG101: Standard Freshman Composition . . 3
- LIB101: Introduction to College Research (*Recommended*) or COL101: College Seminar 1
- MAT141: Calculus with Analytical Geometry I 4
- Physical Education 1

SECOND SEMESTER: 16 credits
- ◆ BIO151: College Biology II: Organismal Biology. 4
- ◆ CHE134: College Chemistry II 4
- ENG102: Introduction to Literature 3
- MAT142: Calculus with Analytical Geometry II. 4
- Physical Education. 1

THIRD SEMESTER: 17-18 credits
- ANT103: Physical Anthropology. 3
- ◆ BIO252: College Biology III: Organisms and Ecosystems 4
- COM101: Introduction to Human Communication 3
- GEO101: World Regional Geography 3
- ◆ PHY130/132: Physics I or PHY101: College Physics I or CHE250: Organic Chemistry I. 4-5

FOURTH SEMESTER: 14-15 credits
- *◆ Intermediate Biology 4
- ◆ PHY230/232: Physics II or PHY102: College Physics II or CHE251: Organic Chemistry II 4-5
- Foreign Language Elective 3
- ** History Elective 3

MINIMUM CREDITS REQUIRED: 64

Chemistry Option (LASC-AS)

This option is designed for students planning a career in medicine, dentistry, pharmacy, scientific research, applied science or the teaching of science in schools and colleges. Upon successful completion of this program, graduates usually transfer as juniors to four-year colleges where they pursue a baccalaureate degree before proceeding to graduate school and professional study in their chosen field.

FIRST SEMESTER: 15-16 credits *Credits*
- ◆ CHE133: College Chemistry I. 4
- ENG101: Standard Freshman Composition . . 3
- LIB101: Introduction to College Research (*Recommended*) or COL101: College Seminar 1
- ART/MUS/THR or Foreign Language Elective 3
- Social Sciences Elective 3
- Physical Education (PED174 *Recommended*) . 1

SECOND SEMESTER: 17 credits
- ◆ CHE134: College Chemistry II 4
- ENG102: Introduction to Literature 3
- Humanities Elective. 3
- MAT141: Calculus with Analytical Geometry I 4
- Social Sciences Elective 3

THIRD SEMESTER: 16 credits
- ◆ CHE250: Organic Chemistry I 5
- Humanities Elective. 3
- MAT142: Calculus with Analytical Geometry II. 4
- ◆ PHY130/132: Physics I 4

For up-to-date information refer to www.sunysuffolk.edu/explore-academics/majors-and-programs.

FOURTH SEMESTER: 16 credits

- ◆ CHE251: Organic Chemistry II. 5
- ** History Elective 3
- *** Restricted Mathematics or Science Elective 4
- ◆ PHY230/232: Physics II. 4

MINIMUM CREDITS REQUIRED: 64

Earth and Space Science Option (LAAS-AS, LAGE-AS, LAME-AS)

This option is for students planning a career in scientific research, applied science or the teaching of science in schools and colleges. Upon successful completion of this program, graduates usually transfer as juniors to four-year colleges where they pursue the baccalaureate degree before proceeding to graduate school and professional study in their chosen field. Separate sequences are offered in astronomy, geology and meteorology, as described below.

ASTRONOMY SEQUENCE (LAAS-AS)

FIRST SEMESTER: 15 credits *Credits*

- ◆ AST101: Astronomy of the Solar System 4
- ENG101: Standard Freshman Composition . . 3
- LIB101: Introduction to College Research (*Recommended*) or COL101: College Seminar 1
- Humanities Elective. 3
- Physical Education 1
- Social Science Elective 3

SECOND SEMESTER: 16 credits

- ENG102: Introduction to Literature 3
- ◆ AST102: Astronomy of Stars and Galaxies 3
- HIS101: Western Civilization I or HIS102: Western Civilization II or HIS107: Modern World History 3
- Humanities Elective. 3
- MAT141: Calculus with Analytical Geometry I 4

THIRD SEMESTER: 15 credits

- ◆ AST201: Observational Astronomy 4
- HIS103: Foundations of American History or HIS104: Modern American History or HIS118: Major World Cultures or HIS119: The Far Eastern World or HIS120: History of Religion. 3
- MAT142: Calculus with Analytical Geometry II. 4
- ◆ PHY130/132: Physics I 4

FOURTH SEMESTER: 14-16 credits

- Liberal Arts and Sciences Electives (MAT203 Recommended). 6-8
- ‡ Humanities Elective. 3
- ◆ PHY230/232: Physics II. 4
- Physical Education 1

MINIMUM CREDITS REQUIRED: 60

GEOLOGY SEQUENCE (LAGE-AS)

FIRST SEMESTER: 16 credits *Credits*

- ◆ CHE133: College Chemistry I. 4
- ENG101: Standard Freshman Composition . . 3
- ◆ ESC101: Introduction to Geology 4
- Humanities Elective. 3
- LIB101: Introduction to College Research (*Recommended*) or COL101: College Seminar 1
- Physical Education 1

SECOND SEMESTER: 17 credits

- ◆ CHE134: College Chemistry II 4
- ENG102: Introduction to Literature 3
- HIS101: Western Civilization I or HIS102: Western Civilization II or HIS107: Modern World History 3
- Humanities Elective. 3
- MAT141: Calculus with Analytical Geometry I 4

THIRD SEMESTER: 15 credits

- ◆ ESC102: Evolution of Earth and Life. 4
- HIS103: Foundations of American History or HIS104: Modern American History or HIS118: Major World Cultures or HIS119: The Far Eastern World or HIS120: History of Religion. 3
- MAT142: Calculus with Analytical Geometry II. 4
- ◆ PHY130/132: Physics I 4

FOURTH SEMESTER: 14-15 credits

- Liberal Arts and Sciences Elective 3-4
- Social Sciences Elective 3
- ‡ Humanities Elective. 3
- ◆ PHY230/232: Physics II. 4
- Physical Education 1

MINIMUM CREDITS REQUIRED: 62

METEOROLOGY SEQUENCE (LAME-AS)

FIRST SEMESTER: 16 credits *Credits*

- ◆ CHE133: College Chemistry I. 4
- ENG101: Standard Freshman Composition . . 3
- LIB101: Introduction to College Research (*Recommended*) or COL101: College Seminar 1
- ◆ MET101: Introduction to Weather 4
- Humanities Elective. 3
- Physical Education 1

SECOND SEMESTER: 17 credits

- ◆ CHE134: College Chemistry II 4
- ENG102: Introduction to Literature 3
- HIS101: Western Civilization I or HIS102: Western Civilization II or HIS107: Modern World History 3
- ◆ MET103: Global Climate Change. 3
- MAT141: Calculus with Analytical Geometry I 4

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THIRD SEMESTER: 14 credits

‡ Humanities Elective 3
HIS103: Foundation of American History
or HIS104: Modern American History
or HIS118: Major World Cultures
or HIS119: The Far Eastern World
or HIS120: History of Religion. 3
MAT142: Calculus with Analytical
Geometry II. 4
◆ PHY130/132: Physics I 4

FOURTH SEMESTER: 15 credits

Humanities Elective. 3
Social Sciences Elective 3
MAT203: Calculus with Analytical
Geometry III 4
◆ PHY230/232: Physics II. 4
Physical Education 1

MINIMUM CREDITS REQUIRED: 62

Environmental Science/Forestry Option (LAFR-AS)

This option is designed for, but not limited to, students intending to transfer to the SUNY College of Environmental Science and Forestry at Syracuse to major in Environmental Resource Management. Students who wish to pursue careers in landscape architecture, environmental planning or environmental analysis should consult an Environmental Science faculty advisor.

FIRST SEMESTER: 17 credits *Credits*

◆ CHE133: College Chemistry I. 4
ENG101: Standard Freshman Composition . . 3
◆ ENV101: Introduction to Environmental
Sciences 4
LIB101: Introduction to College
Research (*Recommended*)
or COL101: College Seminar 1
MAT141: Calculus with Analytical
Geometry I 4
Physical Education 1

SECOND SEMESTER: 16 credits

◆ BIO150: College Biology I: Cellular and
Molecular Biology 4
◆ CHE134: College Chemistry II 4
ENG102: Introduction to Literature 3
MAT142: Calculus with Analytical
Geometry II. 4
Physical Education. 1

THIRD SEMESTER: 17 credits

◆ BIO252: College Biology III:
Organisms and Ecosystems 4
COM101: Introduction to Human
Communication 3
GEO101: World Regional Geography 3
◆ PHY130/132: Physics I
or PHY101: College Physics I 4
† Social Sciences Elective 3

FOURTH SEMESTER: 14 credits

◆ BIO210: Field Biology and Ecology 4
** History Elective 3
Foreign Language 3
◆ PHY230/232: Physics II
or PHY102: College Physics II 4

MINIMUM CREDITS REQUIRED: 64

Physics Option (LAPH-AS)

The Physics Option is for students planning a career in scientific research, applied science or science teaching. Graduates of this program usually transfer as juniors to four-year colleges where they pursue the baccalaureate degree before proceeding to graduate school and professional study in their chosen field.

FIRST SEMESTER: 16 credits *Credits*

◆ CHE133: College Chemistry I. 4
CST112: Introduction to Programming. 4
ENG101: Standard Freshman Composition . . 3
LIB101: Introduction to College
Research (*Recommended*)
or COL101: College Seminar 1
MAT141: Calculus with Analytical
Geometry I 4

SECOND SEMESTER: 15 credits

◆ CHE134: College Chemistry II 4
ENG102: Introduction to Literature 3
MAT142: Calculus with Analytical
Geometry II. 4
◆ PHY130/132: Physics I 4

THIRD SEMESTER: 15 credits

HIS101: Western Civilization I
or HIS102: Western Civilization II
or HIS107: Modern World History 3
MAT203: Calculus with Analytical
Geometry III 4
MAT204: Differential Equations. 4
◆ PHY230/232: Physics II. 4

FOURTH SEMESTER: 18 credits

Foreign Language Elective 3
MAT206: Linear Algebra. 4
◆ PHY245/246: Physics III 4
◆ PHY247/248: Physics IV 4
Social Sciences Elective 3

MINIMUM CREDITS REQUIRED: 64

* To be selected from BIO210, BIO262, BIO270, BIO272 or BIO274.
** To be selected from HIS101, HIS102, HIS103, HIS104, HIS107, HIS118, HIS119 or HIS120.
*** To be selected from CHE200, MAT203, MAT204, MAT205, PHY245/246.
† To be selected from SOC101, POL103, ECO111, or ECO112.

For up-to-date information refer to www.sunysuffolk.edu/explore-academics/majors-and-programs.

‡ SUNY-GER Foreign Language or The Arts recommended.
◆ These courses constitute the major courses in this curriculum.

NOTES: 1) *Students planning to transfer to a SUNY four-year institution should check the SUNY General Education Requirements on page 95 for selecting courses.* 2) *See page 30 for information about transfer agreements.*

LIBERAL ARTS AND SCIENCES: SOCIAL SCIENCE / A.A. DEGREE

Ammerman - Eastern - Grant / LASH-AA, LASS-AA, LASP-AA, LASA-AA
HEGIS Code - 5622, CIP Code - 24.0103

This program is for students who plan to major in history, political science, psychology or sociology when they transfer to a four-year institution to complete the requirements for the baccalaureate degree. After the core general education requirements, the four options have specific required courses.

Admission Procedures and Requirements

Entering students should have a minimum high school average of 80 with Integrated Algebra or equivalent completed. Students already enrolled in college should have completed MAT006 or MAT007. Students are admitted on a rolling basis with most students meeting minimum standards admitted.

History Option (LASH-AA)

FIRST SEMESTER: 16 credits *Credits*
- ENG101: Standard Freshman Composition . . 3
- LIB101: Introduction to College Research (Recommended) or COL101: College Seminar 1
- * Foreign Language 3
- MAT103: Statistics I 3
- ◆ POL105: American National Politics and Government 3
- ◆ PSY101: Introduction to Psychology 3

SECOND SEMESTER: 16 credits
- ENG102: Introduction to Literature 3
- * Foreign Language 3
- ◆ HIS101: Western Civilization I 3
- ◆ HIS103: Foundations of American History . . 3
- Laboratory Science Elective 4

THIRD SEMESTER: 16-17 credits
- COM101: Introduction to Human Communication or COM102: Interpersonal Communication or COM105: Public Speaking 3
- ◆ HIS102: Western Civilization II 3
- ◆ HIS104: Modern American History 3
- Laboratory Science or Mathematics Elective 3-4
- **◆ Other World Civilizations Social Sciences Elective 3
- Physical Education 1

FOURTH SEMESTER: 13-14 credits
- ◆ HIS107: Modern World History 3
- Humanities Elective 3
- Laboratory Science or Mathematics Elective 3-4
- ◆ Social Sciences Elective 3
- Physical Education 1

MINIMUM CREDITS REQUIRED: 61

Political Science Option (LASS-AA)

FIRST SEMESTER: 16 credits *Credits*
- ENG101: Standard Freshman Composition . . 3
- LIB101: Introduction to College Research (Recommended) or COL101: College Seminar 1
- * Foreign Language 3
- MAT103: Statistics I 3
- ◆ POL105: American National Politics and Government 3
- ◆ PSY101: Introduction to Psychology 3

SECOND SEMESTER: 16 credits
- ENG102: Introduction to Literature 3
- * Foreign Language 3
- ◆ HIS101: Western Civilization I or HIS102: Western Civilization II 3
- ◆ POL101: Political Thought 3
- Laboratory Science Elective 4

THIRD SEMESTER: 16-17 credits
- COM101: Introduction to Human Communication or COM102: Interpersonal Communication or COM105: Public Speaking 3
- ◆ HIS103: Foundations of American History or HIS104: Modern American History 3
- *** Laboratory Science or Mathematics Elective 3-4
- ◆ POL107: World Politics 3
- **◆ Other World Civilizations Social Sciences Elective 3
- Physical Education 1

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