

**LIBERAL ARTS AND SCIENCES**  
**LIBERAL ARTS AND SCIENCES - SCIENCE (LAX)**  
**(HEGIS 5649)**

This curriculum is designed for the student who intends to transfer to a four-year institution to earn a baccalaureate degree in a natural or physical science. The program provides a broad background in the liberal arts and sciences. By appropriate selection of courses, a student may build a suitable background for further study in a senior college leading to the baccalaureate degree in biology, chemistry, environmental science and conservation, geology, health education or physics.

Dutchess Community College transfers students to a variety of four-year, public and private colleges and universities. Both formal and informal transfer agreements exist. Students are urged to consult their advisor, the faculty and the Counseling and Career Services staff about transfer opportunities early in their academic career at Dutchess.

The Associate in Science (A.S.) degree is awarded upon completion of the requirements for this program.

Students who successfully complete the Associate in Science (A.S.) degree in Liberal Arts and Sciences – Science (LAX) will:

- Qualify to transfer as a junior to a four-year institution of higher learning to earn a baccalaureate degree in a natural or physical science;
- Have successfully completed an enriched and broadened background in the liberal arts;
- Have successfully completed courses in a particular field of interest in the natural and/or physical sciences;
- Have met the SUNY General Education requirements in mathematics, writing and critical thinking;
- Have developed the technological skills and expertise in computer use for data collection/analysis, laboratory procedures, and field work as appropriate to their area of concentration, necessary for success in junior-senior courses at their respective transfer institutions.

Courses should be selected in consultation with an advisor.

Course No.	Descriptive Title	Cr.Hrs.
ENG 101	Composition I	3
ENG 102	Composition II	3
HIS 104, HIS 108, or HIS 121		3
BHS 103	Social Problems in Today's World	3
Science (a) (c)		16
SCI 100	Science Introductory Seminar (d)	1
Math (b) (c)		4
Humanities (e)		3
Social Science (f)		3
General Education Elective (g)		3-4
Electives (h) (15-16 credits)		
Free Elective (i) (3-4 credits)		19
WFE 101	Lifetime Wellness and Fitness	3
	<b>TOTAL</b>	
	<b>TOTAL CREDIT HOURS</b>	<b>64</b>

a. The following science courses are recommended for students planning to transfer in: Biology: BIO 101-102, eight BIO 200-level credits; CHE 121-122, CHE 231-232. Chemistry: CHE 121-122; 231-232; PHY 121-122 or 151-152. Earth Science: CHE 121-122; GLG 121, 124; AST 131; PHS 111; PHY 121-122. Environmental Science: BIO 107, 108, 221, 225, 226, 230; CHE 121 and CHE 122, ESC 230 or ESC 231. Health: BIO 101-102, 209-210. Physics: PHY 151-152, 251, PHY 252 or ENR 207; CHE 121-122.

b. Mathematics course: MAT 185 or a 200-level math course. Students must meet the math course prerequisites. The following mathematics courses are recommended for students planning to transfer in: Biology: MAT 221, 222, 223, 224. Environmental Science: MAT 118 and MAT 185 or 221. Chemistry: MAT 221, 222, 223, 224. Health: MAT 118 and MAT 185. Earth Science: MAT 221, 222. Physics: MAT 221, 222, 223, 224.

c. A minimum of one 200-level course is required in either math or science.

d. The Introductory Seminar is required in the first semester after matriculation in LAX.

e. Humanities courses: Applicable courses are listed in the General Education Appendices. Students may not use ENG 102 to satisfy the Humanities requirement.

f. Social Science courses: Applicable courses in behavioral science, economics, geography, government, history, HGE 101, psychology. Students may not use BHS 103 to satisfy the Social Science requirement.

g. General Education Elective: Courses applicable to this program are listed in the General Education Appendices D, E, F, H and I. Students may select a course from Appendix D only if HIS 104 or HIS 121 have not been previously taken. Students may select a course from Appendix F only if HIS 108 has not been previously taken. See page 99 for the list of the General Education Appendices.

h. Elective courses: Courses applicable in this program are: (a) specific courses listed above; (b) courses applicable in all programs, and courses listed in the General Education Appendices D, E, F, and H. Students may select a course from Appendix D only if HIS 104 or HIS 121 have not been previously taken. Students may select a course from Appendix F only if HIS 108 has not been previously taken. See page 99 for the list of the General Education Appendices.

i. For a full discussion of the free elective see page 98.