Program Transfer Pathway

FROM Degree: Associate of Science (A.S.)
Major: Academic Transfer

TO Degree: Bachelor of Science (B.S.)
Major: Microbiology

Last Updated: 10/23/2026

Catalog Year(s): 2026-2027

This program transfer pathway outlines an 8-semester plan that fulfills all requirements for the program listed above at Southeast Community College alongside the program(s) listed above at the University of Nebraska-Lincoln. While this pathway assumes full-time enrollment (14-16 credits/semester), we recognize that each student has a unique path and is expected to consult with their academic advisor in determining the best path toward degree completion at both institutions. As a full-time student, this pathway allows students to complete both degrees at their respective institutions within a 4-year timeline.

Math and English Sequencing: Math and English readiness might impact the full semester-by-semester program transfer pathway. See your academic advisor for more information.

Course Selection and Pathway Considerations

- Courses that are marked with a * are part of a particular sequence of courses that must be taken in a particular order.
- Course(s) marked with *Italics* have multiple course options for that particular requirement. A list of courses may be selected from the Course Options list. While this list is not an exhaustive list of courses that fulfill each outcome at SCC, it provides a consolidated list of the most applicable courses that will benefit a student in transferring to UNL for this particular program of study. Selecting alternative courses other than what is recommended may impact remaining requirements at UNL. When a course is listed in multiple outcomes, it may be used to fill only one Core requirement.

Note- To Complete this pathway in a 8-semester window, it is recommended to take 1 summer class at SCC, which is built into the plan below.

Courses Taken at Southeast Community College			How Courses Transfer to University of Nebraska-Lincoln		
Semester 1			**Semester 1**		
Course	**Title/ Program Requirement**	**Cr Hrs**	**Course**	**Title/ Program Requirement**	**Cr Hrs**
ACFS 1015	Success@SCC	1	GNCR***	General Elective	1
WC 1	*Any WC ACE 1 Approved Course*	*3*	ACE 1	ACE 1 Approved Course	3
MATH 1600	Calculus & Applied Geometry I (M/CS #1)	5	MATH 106	Calculus I (ACE 3)	5
CHEM 1090*	General Chemistry I *(NS #1)*	4	CHEM 109A/L	General Chemistry I & Lab (CDR Science w/ lab)	3+1
S/BS	*Any S/BS ACE 6 approved course*	*3*	ACE 6	ACE 6 Approved Course	3
Semester 2			**Semester 2**		
Course	**Title/ Program Requirement**	**Cr Hrs**	**Course**	**Title/ Program Requirement**	**Cr Hrs**
WC 2	*Any WC ACE 1 Approved Course*	*3*	CDR Writing	CDR Writing Course	3
CHEM 1100*	General Chemistry II (NS #2)	4	CHEM 110A/L	General Chemistry II & Lab	3+1
BIOS 1400	Biology I *(NS #3)*	4	LIFE 120/L	Fundamental of Biology I and Lab (ACE 4)	3+1
H G3	*Any H G3 ACE 7 approved course*	*3*	ACE 7	ACE 7 Approved Course	3
Summer			**Summer**		
Course	**Title/ Program Requirement**	**Cr Hrs**	**Course**	**Title/ Program Requirement**	**Cr Hrs**
Elective	*Any Elective ACE 5 approved course*	*3*	ACE 5	ACE 5 Approved Course	3
Semester 3			**Semester 3**		
Course	**Title/ Program Requirement**	**Cr Hrs**	**Course**	**Title/ Program Requirement**	**Cr Hrs**
CS	*Any CS ACE 2 Approved Course*	*3*	ACE 2	ACE 2 Approved Course	3
CHEM 2510*	Organic Chemistry I (Elective)	4	CHEM 251	Organic Chemistry I	3
			CHEM 253	Organic Chemistry I Lab	1
BIOS 1410	Biology II (NS #3)	4	LIFE 121/L	Fundamentals of Biology II and Lab	3+1
Elective	*Any Elective ACE 8 Approved Course*	3	ACE 8	ACE 8 Approved Course	3
Semester 4			**Semester 4**		
Course	**Title/ Program Requirement**	**Cr Hrs**	**Course**	**Title/ Program Requirement**	**Cr Hrs**
BIOS 2410	General Genetics (Elective)	4	BIOS 201	General Genetics (Major)	4
MATH 2170	Applied Statistics *(M/ CS #2)*	3	STAT 218	Introduction to Statistics	3
*CHEM 2520**[A]	*Organic Chemistry II (Elective)*	4	CHEM 252	Organic Chemistry II	3
			CHEM 254	Organic Chemistry II lab	1
C&GS	*Any C&GS ACE 9 Approved Course*	*3*	ACE 9	ACE 9 Approved Course	3
Total Credits Required for A.S.:		**61**		Total Transfer credits toward B.S.	60
				Total remaining credits required	60

[A] CHEM 2520 is an elective course at SCC that fulfills a requirement for Sequence 2 of the Biochemistry and Organic Chemistry sequence at UNL. If a student does stop at CHEM 2510, students can pursue Sequence 1 for this requirement instead, although possible career pathways requiring postgraduate degrees may be limited.

SCC Reviewers: T. Lazarowicz 10/23/2026

UNL University Reviewers: M. Savage 10/14/2026

Remaining University of Nebraska-Lincoln Coursework

University of Nebraska-Lincoln – Semester 1			University of Nebraska-Lincoln – Semester 2		
Course	**Title/ Program Requirement**	**Cr Hrs**	**Course**	**Title/ Program Requirement**	**Cr Hrs**
CASC 50	Start Smart in Arts and Sciences	0	PHYS 142	Physics for Life Science II	5
MBIO 101	Introduction to the Microbiology Major	1	MBIO Major	Microbial Diversity and Ecology course	3
PHYS 141	Physics for Life Science I	5	MBIO	Advanced Microbiology Lab Course	3-5
BIOS 312	Microbiology	3	MBIO Major	Computational Approaches Course	3-4
BIOS 314	Microbiology Lab	1			
XXXX 3/4xx	Upper-level CDR Humanities or Social Science	3			
University of Nebraska-Lincoln – Semester 3			**University of Nebraska-Lincoln – Semester 4**		
Course	**Title/ Program Requirement**	**Cr Hrs**	**Course**	**Title/ Program Requirement**	**Cr Hrs**
MBIO 440	Microbial Physiology	3	MBIO 420 or MBIO 418	Molecular Genetics (ACE 10) or Microbial Genetics & Genomics (ACE 10)	3
MBIO Major	Microbe Host Interactions course	3	MBIO Major	Microbiology Elective course	3
MBIO Major	Organismal Microbiology course	3	XXXX 3/4xx	Upper-level Elective	4
BIOC 431	Biochemistry I: Structure and Metabolism	3	XXXX	Elective, Minor, or Pre-Health Course	3
XXXX	Elective, Minor, or Pre-Health Course	3-4	CDR Diversity	CDR Diversity and Humanities/ Social Science	3
		Total credits required to earn both Associates and Bachelor's degrees.			121

Notes:
* All equivalent courses must be completed with a grade of "C " or better to transfer for major requirements. Up to 15 credits of "D" and "C-" coursework can transfer toward general degree requirements.
* Developmental coursework will not be included in transfer.
* The College of Arts and Science at the University of Nebraska-Lincoln requires completion of the equivalent of the second-year level of one world language in high school or completion of a 102-level language class to meet the CDR Language requirement for a Bachelor of Science. Languages regularly available at SCC include Spanish and American Sign Language.
*Math readiness impacts the full semester-by-semester program transfer pathway.

Experiential Learning

All UNL students must complete at least one approved Experiential Learning course (including 0-credit choices). Microbiology majors have many options, including these popular choices:

- Internships: Microbiology students intern in a variety of public and private organizations. Document your experience on your transcript with CASC 95 (0-credit).
- Undergraduate Research: Work with a faculty member on their research or pursue your own research interests through UCARE (Undergraduate Creative Activity and Research Experience), a paid program. Earn elective credit with MBIO 498 or simply document your experience on your transcript with CASC 98 (0-credit).
- Education Abroad: Choose from affiliate programs around the world, or travel and learn with a UNL faculty member and fellow students.
- Leadership: Microbiology majors are active leaders on campus, including serving on ASUN (Associated Students of the University of Nebraska), or as Orientation Leaders, Ambassadors, and Resident Assistants. These significant on-going leadership experiences may be documented on your transcript with CASC 97 (0-credit).

Questions about UNL requirements?
Contact the College of Arts and Sciences Academic and Career Advising Center at casadvising@unl.edu, 402-472-4190.

Additional Advising Resources for Pre-Health Students:
In addition to the academic advisor and career coach you will be assigned in the College of Arts and Sciences, you will also be able to access specialized advising for pre-health students through the Explore Center at UNL. Explore Center advisors are experts in the admissions requirements for a variety of health-related professional schools and can help you plan your application timeline. This includes admissions exams along with the types of experience that will make you competitive, like shadowing, volunteering, clinical experience, and research. Many pre-health programs require specific courses to be taken for admissions purposes, or to be prepared for entrance examinations. More information about the Explore Center at UNL and pre-professional course requirements can be found at https://explorecenter.unl.edu/pre-health-programs/.

Southeast COMMUNITY COLLEGE

Associate of Science - Course Options (ACE in Parentheses)
Catalog year(s): 2026-2027
Bolded course is built into the program transfer pathway

Course	Title	Cr	Course	Title	Cr
Written Communication (WC) (1st Class) – All classes ACE 1 Approved					
ENGL 1010	English Composition I	3	ENGL 1054	Writing and Communities	3
ENGL 1010H	Composition I Honors	3			
Written Communication (WC) (2nd Class) – All classes ACE 1 Approved					
ENGL 1020	English Composition II	3	ENGL 2560	Technical Writing	3
ENGL 1020H	Composition II Honors	3	OFFT 2120	Business Communication Strategies	3
Communication Studies (CS) – All classes ACE 2 Approved					
COMM 1090	Fundamentals of Human Communication	3	COMM 2100	Communicating in Groups and Teams	3
COMM 1110	Public Speaking	3	COMM 2810	Business and Professional Communication	3
Mathematics/ Computer Science (M/CS)					
CSCI 1010	Introduction to Computer Science (3)	3	MATH 1700	Calculus & Analytic Geometry II (3)	5
CSCE 1550	Computer Science I	4	MATH 2070	Using Math to Understand Our World (3)	3
CSCE 2311	Data Structures and Algorithms for Informatics	3	MATH 2080	Calculus & Analytic Geometry III (3)	4
MATH 1150	College Algebra	3	**MATH 2170**	**Applied Statistics (3)**	**3**
MATH 1200	Trigonometry	3	MATH 2270	Introduction to Statistics II	3
MATH 1300	Pre-calculus	5	MATH 2314	Linear Algebra	3
MATH 1400	Applied Calculus (3)	3	MATH 2350	Math in the City	3
MATH 1600	**Calculus I and Analytic Geometry (3)**	**5**			
Natural Science with Lab (NS)					
BIOS 1010	General Biology (4)	4	BIOT 2400	Introduction to Biotechnology II	4
BIOS 1120	Introduction to Zoology	4	CHEM 1050	Chemistry and the Citizen (4)	4
BIOS 1140	Human Anatomy	4	CHEM 1051 and	Chemistry and the Citizen Lecture	3
BIOS 1400	**Biology I (4)**	**4**	CHEM 1052	Chemistry and the Citizen Lab	1
BIOS 1410	**Biology II (4)**	**4**	**CHEM 1090**	**General Chemistry I (4)**	**4**
BIOS 2130	Human Physiology	4	CHEM 1100	General Chemistry II (4)	4
BIOS 2250	Human Anatomy and Physiology I	4	PHYS 1410	Elementary General Physics I (4)	5
BIOS 2260	Human Anatomy and Physiology II	4	PHYS 1420	Elementary General Physics II (4)	5
BIOS 2410	General Genetics	4	PHYS 2110	General Physics I (4)	5
BIOS 2460	Microbiology	4	PHYS 2120	General Physics II (4)	5
BIOT 1400	Introduction to Biotechnology I (4)	4			
Humanities (H) (require 1 or 2 of the following)					
Group 1- Literature/Journalism/Communication					
COMM 2100	Communicating in Groups and Teams (2)	3	ENGL 2200	Science Fiction Literature (5)	3
COMM 2750/ POLS 2750	Political Communication	3	ENGL 2220	British Literature Post-1800 (5)	3
ENGL 2050	Modern Fiction (5)	3	ENGL 2440	African American Literature (5,9)	3
ENGL 2100	Introduction to Literature (5)	3	ENGL 2450	Native American Literature (5,9)	3
ENGL 2140	Introduction to Shakespeare (5)	3	ENGL 2460	Latinx Literature (5,9)	3
ENGL 2150	Introduction to Women's Literature (5,9)	3	ENGL 2470	Asian American Literature (5,9)	3
ENGL 2160	Children's Literature (5)	3	JOUR 1810	Introduction to Mass Media	3
ENGL 2170	American Literature from 1865 (5)	3	JOUR 1820	Media Writing	3
Group 2- History/Philosophy					
HIST 1000	Western Tradition to 1500 (5)	3	PHIL 1010	Introduction to Philosophy (5,8)	3
HIST 1010	Western Tradition since 1500 (5)	3	PHIL 1060	Applied Ethics (8,9)	3
HIST 2010	American History I (5)	3	PHIL 1100	Introduction to Logic and Critical Thinking (3)	3
HIST 2020	American History II (5)	3	PHIL 2110	Introduction to Modern Logic (3)	3
HIST 2100	World History to 1500 CE (9)	3	PHIL 2130	Bioethics (5,8)	3
HIST 2110	World History since 1500 CE (9)	3	PHIL 2250	Environmental Ethics (8,9)	3
HIST 2604	World War II	3	PHIL 2610/ RELS 2610	Comparative Religions (9)	3
HIST 2960	Survey of African American History	3	PHIL 2650	Philosophy of Religion (5,9)	3
Group 3- Creative/Fine/Performing Arts					
ARTS 1010	Introduction to the Visual Arts	3	HUMS 1100	Introduction to Humanities	3
ARTS 1050	Introduction to Art History & Criticism I (7)	3	HUMS 1200	Contemporary Arts & Ideas (7)	3
ARTS 1060	Introduction to Art History & Criticism II (7)	3	MUSC 1010	Introduction to Music (Music Appreciation) (7)	3
ARTS 1110	Beginning Drawing I	3	MUSC 1610	Music Theory I	4
ARTS 1330	Beginning Ceramics I	3	MUSC 2750	Introduction to American Music	3
ARTS 2650	Introduction to Native American Art	3	MUSC 2800	Introduction to World Music (7,9)	3
ARTS 2750	Women in Art	3	MUSC 2870	History of Rock Music (7)	3
ARTS 2850	History of Photography	3	PHOT 1750	Beginning Photography	3
COMM 2050	Oral Performance of Literature	3	THEA 1010	Introduction to Theatre	3
ENGL 1510	Introduction to Creative Writing (7)	3	THEA 1140	Basic Acting	3
ENGL 2520	Fiction Writing (7)	3	THEA 2130	Film Appreciation (7)	3
ENGL 2530	Poetry Writing (7)	3			
Group 4- May select 1 additional class from Group 1, 2, or 3 on the previous page of from the list of language below					
GERM 1010	Beginning German I	5	SIGN 1020	Beginning American Sign Language II	4
GERM 1020	Beginning German II	5	SPAN 1010	Elementary Spanish I	5
SIGN 1010	Beginning American Sign Language I	4	SPAN 1020	Elementary Spanish II	5

Social/Behavioral Sciences (S/BS) (Require 1 or 2 of the following)

Group 1- Anthropology/Psychology/Sociology

ANTH 1020	Introduction to Cultural Anthropology (6)	3	PSYC 2880	Social Psychology (6)	3
ANTH 1120	General Anthropology (6,9)	3	SOCI 1010	Introduction to Sociology (6)	3
BIOS 2210	Animal Behavior	3	SOCI 1020	Social Identities in Everyday Life	3
PSYC 1250	Interpersonal Relations (2)	3	SOCI 2000	Gender in Contemporary Society (6,9)	3
PSYC 1810	Introduction to Psychology (6)	3	SOCI 2010	Social Problems (6,9)	3
PSYC 2200	Human Development	3	SOCI 2150	Exploring Unity and Diversity (6,9)	3
PSYC 2210	Animal Behavior	3	SOCI 2250	Marriage and the Family (6,9)	3

Group 2- Economics/ Political Science

ECON 1200	Personal Finance (6)	3	POLS 1600	International Relations (9)	3
ECON 2110	Principles of Macroeconomics (6)	3	POLS 2020	State & Local Government	3
ECON 2120	Principles of Microeconomics (6)	3	POLS 2270	The Presidency	3
POLS 1000	American Government (6,8)	3	POLS 2300	Political Parties (6)	3
POLS 1040	Comparative Politics	3	POLS 2750/ COMM 2750	Political Communication	3
POLS 1080	Introduction to Political Science	3			

Group 3- Geography/Education/Physical Education

EDUC 1110	Introduction to Professional Education	3	EDUC 2800	Professional Practicum	2
EDUC 2000	Educational Psychology	3	GEOG 1020	World Regional Geography (9)	3
EDUC 2160	Children's Literature (5)	3	GEOG 1400	Human Geography (9)	3
EDUC 2300	Introduction to Special Education	3	GEOG 2810	Introduction to Water Science	3
EDUC 2590	Instructional Technology (2)	3	PHED 1000	Lifetime Wellness	3

Group 4- May select 1 class from Group 1, 2, or 3 above

Culture and Gender Studies (C&GS)

ANTH 1020	Introduction to Cultural Anthropology (6)	3	GLST 1000	Introduction to Global Studies	3
ANTH 1120	General Anthropology (6,9)	3	GLST 2980/2981	Global Studies Experience	3
ARTS 2650	Introduction to Native American Art	3	HIST 2100	World History to 1500 CE (9)	3
ARTS 2750	Women in Art	3	HIST 2110	World History since 1500 CE (9)	3
COMM 2110	Intercultural Communication	3	HIST 2960	Survey of African American History	3
ENGL 2150	Introduction to Women's Literature (5,9)	3	HMRS 1320	Multicultural Competency (9)	3
ENGL 2440	African American Literature (5,9)	3	MUSC 2800	Introduction to World Music (7,9)	3
ENGL 2450	Native American Literature (5,9)	3	PHIL 2610/ RELS 2610	Comparative Religions (9)	3
ENGL 2460	Latinx Literature (5,9)	3	POLS 1600	International Relations (9)	3
ENGL 2470	Asian American Literature (5,9)	3	SOCI 1020	Social Identities in Everyday Life	3
EDUC 2300	Introduction to Special Education	3	SOCI 2000	Gender in Contemporary Society (6,9)	3
GEOG 1020	World Regional Geography (9)	3	SOCI 2010	Social Problems (6,9)	3
GEOG 1400	Human Geography (9)	3	SOCI 2150	Exploring Unity and Diversity (6,9)	3