

# TRANSFER PLANNING WORKSHEET: 2020-2021



**NORTH CENTRAL COLLEGE** 1861

## FOR PLANNING USE ONLY – NOT AN OFFICIAL DEGREE AUDIT

Student Name: \_\_\_\_\_ North Central ID# \_\_\_\_\_ College Representative: \_\_\_\_\_ Date: \_\_\_\_\_

### Your guide for transferring:

- Some courses may have pre-requisites; please consult the course catalog.
- At least 64 credit hours must be taken at a four-year institution; at least 128 credit hours are required for graduation.
- One course may fulfill a requirement in up to three different designations.
- Transfer students with an earned Associate of Arts or Associate of Science will only need to fulfill the Transfer Seminar, Well-Being, and Senior Seminar (indicated with \*).

### GENERAL EDUCATION

	Requirement	Course Number/Title	Credit	Grade
Core Requirements <i>May be fulfilled at NCC or through approved transfer courses</i>	Composition	ENGL 1101 @ COD		
	Writing Intensive	Completed in major		
	Public Speaking	SPEE 1100 @ COD		
	Fine Arts	Any "ART" in guide		
	Humanities	Any "HUM" in guide		
	Social Science	Any "SOC" in guide		
	Science	Completed in major		
	Quantitative Analysis	Completed in major		
	Power Structures	Completed in major		
	Ethical Dimensions	Completed in major		
	Global Understanding	Any "GLO" in guide		
	Icons <i>Transfers with 28 or more transferable credit hours at entry are exempt</i>	Exempt if transferring with more than 28 credit hours		
Well Being*	BUSI 1120, ECON 1110, or PE 2251 @ COD			
NCC Reqs.	Transfer Seminar* <i>Must be taken at NCC</i>			
	Senior Seminar* <i>Must be taken at NCC</i>			

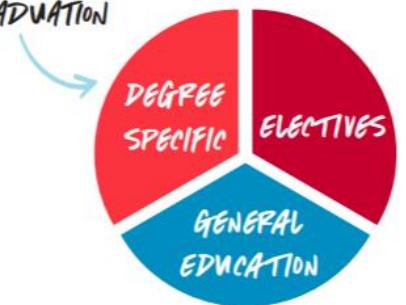
### ELECTIVES

Course Number/Title	Credit	Grade

### DEGREE-SPECIFIC REQUIREMENTS

<b>B.A. – Foreign Language</b>	<ul style="list-style-type: none"> <li>• 3 years H.S. with "B" average or</li> <li>• MCL 102 or equivalent or</li> <li>• Designated Study Abroad or</li> <li>• LANG 390 or CLSS 190 (available <b>only</b> to transfers entering with a <b>minimum of 51 transferable credits</b>) <i>Some majors may require courses in addition to foreign language</i></li> </ul>
<b>B.S.</b>	• Determined by individual major
<b>B.B.A.</b>	• Determined by individual major
<b>B.M.E.</b>	• Determined by individual major

**128 CREDITS NEEDED FOR GRADUATION**



Additional Notes: \_\_\_\_\_ COD course substitution guide: [https://www.northcentralcollege.edu/sites/default/files/C\\_DuPage2020.pdf](https://www.northcentralcollege.edu/sites/default/files/C_DuPage2020.pdf)

# Transfer Planning Worksheet 2020-2021



**NORTH CENTRAL  
COLLEGE 1861**

Student Name: \_\_\_\_\_ North Central ID# \_\_\_\_\_ College Representative: \_\_\_\_\_ Date: \_\_\_\_\_

## Biochemistry, B.A.

Biochemists study the molecules of life: proteins, nucleic acids, lipids and carbohydrates. A B.A. degree in biochemistry prepares a student for employment in a private or government research laboratory; medical, dental, veterinary or law school; a position in a biotechnology or other scientific firm; or graduate study and research in both basic and applied sciences. The B.A. degree requires fewer advanced science courses than the B.S., allowing students room to gain more breadth by pairing their biochemistry studies with a minor or emphasis outside the sciences.

## Major Requirements

Course Name	Equivalent	Credit	Grade
BCHM 365 - Principles of Biochemistry			
BCHM 465 - Advances in Biomedical Research			
BIOL 195 - Investigating Biology			
BIOL 210 - Cells and Systems	BIOL 2151 @ COD		
BIOL 230 - Genes and Genomics			
BIOL 360 - Molecular Biology of Cancer			
CHEM 121 - General Chemistry I	CHEM 1551 @ COD		
CHEM 122 - General Chemistry II	CHEM 1552 @ COD		
CHEM 251 - Organic Chemistry I	CHEM 2551 @ COD		
CHEM 252 - Organic Chemistry II	CHEM 2552 @ COD		
CHEM 310 - Chemical Analysis			
MATH 151 - Calculus I	MATH 2231 @ COD		
<b>Physical Chemistry</b>			
One of the following:			
Course Name	Equivalent	Credit	Grade
CHEM 340 - Thermodynamics and Kinetics			
CHEM 345 - Quantum Chemistry and Spectroscopy			
<b>Seminar Sequence</b>			
One of the following sequences:			
<b>Biology Seminars</b>			
Course Name	Equivalent	Credit	Grade
BIOL 290 - Seminar (must be taken twice)			
BIOL 490 - Seminar			
<b>Chemistry Seminars</b>			
Course Name	Equivalent	Credit	Grade
CHEM 391 - Seminar I			
CHEM 392 - Seminar II			
CHEM 493 - Seminar III			
<b>Physics Sequence</b>			
One of the following sequences:			
<b>Non-Calculus</b>			
Course Name	Equivalent	Credit	Grade
PHYS 131 - Physics I (Non-Calculus)	PHYS 1201 @ COD		
PHYS 132 - Physics II (Non-Calculus)	PHYS 1202 @ COD		

**Calculus-Based**

Course Name	Equivalent	Credit	Grade
PHYS 161 - Physics I: Mechanics and Heat	PHYS 2111 @ COD		
PHYS 162 - Physics II: Electromagnetism, Waves and Optics	PHYS 2112 @ COD		

**Additional Requirements for the B.A. Degree**

Students must demonstrate elementary competence in a foreign language. For more information, see the B.A. Degree Requirements within the Academic Regulations section of this catalog.

## Biochemistry, B.S.

Biochemists study the molecules of life: proteins, nucleic acids, lipids and carbohydrates. A B.A. degree in biochemistry prepares a student for employment in a private or government research laboratory; medical, dental, veterinary or law school; a position in a biotechnology or other scientific firm; or graduate study and research in both basic and applied sciences. The B.A. degree requires fewer advanced science courses than the B.S., allowing students room to gain more breadth by pairing their biochemistry studies with a minor or emphasis outside the sciences.

## Major Requirements

Course Name	Equivalent	Credit	Grade
BCHM 365 - Principles of Biochemistry			
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BIOL 195 - Investigating Biology			
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CHEM 251 - Organic Chemistry I	CHEM 2551 @ COD		
CHEM 252 - Organic Chemistry II	CHEM 2552 @ COD		
CHEM 310 - Chemical Analysis			
MATH 151 - Calculus I	MATH 2231 @ COD		
<b>Physical Chemistry</b>			
One of the following:			
Course Name	Equivalent	Credit	Grade
CHEM 340 - Thermodynamics and Kinetics			
CHEM 345 - Quantum Chemistry and Spectroscopy			
<b>Seminar Sequence</b>			
One of the following sequences:			
<b>Biology Seminars</b>			
Course Name	Equivalent	Credit	Grade
BIOL 290 - Seminar (must be taken twice)			
BIOL 490 - Seminar			
<b>Chemistry Seminars</b>			
Course Name	Equivalent	Credit	Grade
CHEM 391 - Seminar I			
CHEM 392 - Seminar II			
CHEM 493 - Seminar III			
<b>Physics Sequence</b>			
One of the following sequences:			
<b>Non-Calculus</b>			
Course Name	Equivalent	Credit	Grade
PHYS 131 - Physics I (Non-Calculus)	PHYS 1201 @ COD		
PHYS 132 - Physics II (Non-Calculus)	PHYS 1202 @ COD		
<b>Calculus-Based</b>			
Course Name	Equivalent	Credit	Grade
PHYS 161 - Physics I: Mechanics and Heat	PHYS 2111 @ COD		
PHYS 162 - Physics II: Electromagnetism, Waves and Optics	PHYS 2112 @ COD		

## Additional Requirements for the B.S. Degree

Twelve credit hours from the following:

Course Name	Equivalent	Credit	Grade
BIOL 315 - Animal Physiology			
BIOL 320 - Plant Growth and Function			
BIOL 330 - Evolution			
BIOL 340 - Infectious Disease			
BIOL 370 - Mechanisms of Development			
BIOL 450 - Environmental Ecology Through Models and Experiments			
CHEM 311 - Separation Methods			
CHEM 312 - Spectrometry and Spectroscopy			
CHEM 313 - Materials and Surface Analysis			
CHEM 315 - Spectral Interpretation			
CHEM 340 - Thermodynamics and Kinetics *			
CHEM 345 - Quantum Chemistry and Spectroscopy *			
CHEM 401 - Advanced Inorganic Chemistry			
CHEM 451 - Advanced Organic Chemistry			
CHEM 455 - Organometallic Chemistry			
CSCE 242 - Introduction to Bioinformatics			
*if not already completed for the major.			