

Transfer to Purdue University – [Department of Biochemistry](#)
[Biochemistry Major](#): Concentrations in Biochemistry, Pre-Med, Pre-Vet

TOTAL TRANSFER CREDITS: 67 (see below)

Ivy Tech Community College
Agriculture, AS

https://catalog.ivytech.edu/preview_program.php?catoid=9&poid=7898&returnto=1009

Semester I

MATH STEM Numerical Reasoning Elective CREDIT HOURS: 3

MATH 201 = MA 16010 3 cr

ENGL 111 - English Composition CREDIT HOURS MIN: 3

ENGL 111 = ENGL 1XUWC 3 cr

AGRI Core Course CREDIT HOURS: 3

AGRI 110 = AGECE 20300 3 cr (Recommended)

AGRI 111 = AGRY 10500 3 cr

AGRI 113 = ANSC 10200 3 cr

AGRI 114 = ASM 1XUND 3 cr

CHEM 101 - Introductory Chemistry I CREDIT HOURS MIN: 3

OR CHEM 105 - General Chemistry I CREDIT HOURS MIN: 5

CHEM 105 = CHM 11500 4 cr & 1XTRA 1 cr (Required)

IVYT 111 - Student Success in University Transfer CREDIT HOURS MIN: 1

IVYT 111 = UND 1XTFR 1 cr

Approved for AGR 10100 & AGR 11500 1 cr

Total = 15 Credits

Semester II

AGRI Core Course CREDIT HOURS: 3 (Any Recommended)

AGRI 111 = AGRY 10500 3 cr

AGRI 112 = HORT 10100 3 cr

AGRI 113 = ANSC 10200 3 cr

AGRI 114 = ASM 1XUND 3 cr

AGRI Core Course CREDIT HOURS: 3 (Any Recommended)

AGRI 111 = AGRY 10500 3 cr

AGRI 112 = HORT 10100 3 cr

AGRI 113 = ANSC 10200 3 cr

AGRI 114 = ASM 1XUND 3 cr

CHEM 102 - Introductory Chemistry II CREDIT HOURS MIN: 3

OR CHEM 106 - General Chemistry II CREDIT HOURS MIN: 5

CHEM 106 = CHM 11600 4 cr & 1XTRA 1 cr (Required)

BIOL 121 - General Biology I CREDIT HOURS MIN: 4

BIOL 121 = BIOL 11000 4 cr (Required)

COMM 101 - Fundamentals of Public Speaking CREDIT HOURS MIN: 3

COMM 101 = COM 11400 3 cr

Total = 18 Credits

Semester III

AGRI Core Course - 16 Weeks CREDIT HOURS: 3

AGRI 201 = AGR 20100 3 cr (Recommended)

AGRI 205 = ANSC 22100 3 cr

AGRI 210 = AGECE 33000 3 cr

AGRI Core Course - 16 Weeks CREDIT HOURS: 3

AGRI 201 = AGR 20100 3 cr

AGRI 205 = ANSC 22100 3 cr (Recommended)

AGRI 210 = AGECE 33000 3 cr

Transfer Cluster Course CREDIT HOURS: 3

CHEM 211 = CHM 25500 & 25501 & 2XTRA 5 cr (Required)

If needed, see [Purdue Ag Core - Transfer spreadsheet](#) or [complete list of Ivy Tech transfer courses to Purdue](#)

MATH STEM Numerical Reasoning Elective CREDIT HOURS: 3

MATH 202 = MA 16020 3 cr

[Social and Behavioral Ways of Knowing Elective](#) CREDIT HOURS: 3

ANTH 154 or HIST 112 = ANTH 10000 or HIST 10400 3 cr (Recommended except for Pre-Med concentration) Approved for CoA Core – HUM/SS & INTL

OR SOCI 111 = SOC 10000 (Recommended for Pre-Med concentration) Approved for CoA Core – HUM/SS

OR (Insert Ivy Tech S&BWK Elective transfer course to Purdue)

If needed, see [Purdue Ag Core - Transfer spreadsheet](#)

Total = 17 Credits

Semester IV

Transfer Cluster Course CREDIT HOURS: 3

BIOL 122 = BIOL 11100 4 cr (Required)

Transfer Cluster Course CREDIT HOURS: 3

PHYS 101 = PHYS 22000 4 cr (Recommended)

OR (Insert Ivy Tech transfer course to Purdue)

If needed, see [Purdue Ag Core - Transfer spreadsheet](#) or [complete list of Ivy Tech transfer courses to Purdue](#)

Transfer Cluster Course CREDIT HOURS: 3

CHEM 212 = CHM 25600 & 25601 & 2XTRA 5 cr (Required)

If needed, see [Purdue Ag Core - Transfer spreadsheet](#) or [complete list of Ivy Tech transfer courses to Purdue](#)

Humanistic and Artistic Ways of Knowing Elective CREDIT HOURS: 3

PHIL 101 = PHIL 11000 3 cr (Recommended)

Approved for UCC – HUM & CoA Core – INTL

OR (Insert Ivy Tech H&AWK Elective transfer course to Purdue)

If needed, see [Purdue Ag Core - Transfer spreadsheet](#)

AGRI 290 - Agriculture Seminar CREDIT HOURS MIN: 1

AGRI 290 = AGR 2XTFR 1 cr

Total = 17 Credits

Agriculture, Associate of Science - AS, 60 Credit Hours

Ivy Tech Course Descriptions & Prerequisites

<https://catalog.ivytech.edu/content.php?catoid=9&navoid=1014>

Note: The exact sequence of courses listed above (classes to take semester-by-semester) may vary. Students should consult with an advisor each semester before scheduling classes.

Transfer to Purdue University – Biochemistry Major

Biochemistry

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29692&returnto=22203

RECOMMENDED PLAN OF STUDY									
Biochemistry Contact:									
Heidi Fornes, hfornes@purdue.edu, biochem-boilers@purdue.edu									
Courses to be Taken at Purdue									
BIOCHEMISTRY									
Summer Semester		Cr. Hrs.							
Total									
Semester 1		Cr. Hrs.		Semester 2		Cr. Hrs.			
BCHM 100 Intro to BCHM		2		BCHM 221 Analytical BCHM I		3			
BIOL 231 Cell Structure/Functio		3		BCHM 290 - Expt design		2			
BIOL 232 Cell Str/Funct Lab		2		BCHM 361 - Molecules		3			
BCHM 390 Professional Dev.		1		BCHM 498 Research		1			
PHYS 221 Physics Elect/Mag.		4		ENGL/COMM 200+		3			
AGRY 321 Genetics lab		1		STAT 301 - statistics		3			
AGRY 320 Genetics		3							
Total			16	Total			15		
Semester 3		Cr. Hrs.		Semester 4		Cr. Hrs.			
BCHM 322 Analytical BCHM II		2		BCHM 498 Research		1			
BCHM 462 Metabolism		3		Science Selective		3			
BCHM 498 Research		2		BCHM 465 BCHM of Life Proces		2			
Hum Selective 300+		3		BCHM 490 Seminar		1			
BINF Selective		3		Adv. BCHM Selective		3			
				HUM selective (IU)		3			
Total			13	Total			13		
Summer Semester		Cr. Hrs.							
Total									
Notes:									
Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.									
120 total credits required.									

Pre-Med Concentration

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29690&returnto=22203

RECOMMENDED PLAN OF STUDY

Biochemistry Contact:

Heidi Fornes, hfornes@purdue.edu, biochem-boilers@purdue.edu

Courses to be Taken at Purdue

PRE-MED

Summer Semester		Cr. Hrs.
Total		0

Semester 1		Cr. Hrs.
BCHM 100 Intro to BCHM		2
BIOL 231 Cell Structure/Functio		3
BIOL 232 Cell Str/Funct Lab		2
BCHM 390 Professional Dev.		1
PHYS 221		4
AGRY 320		3
AGRY 321		1
Total		16

Semester 2		Cr. Hrs.
BCHM 221 Analytical BCHM I		3
BCHM 290 - Expt design		2
BCHM 361 - Molecules		3
BCHM 498 Research		2
PSY 120 Psychology		3
STAT 301 - Statistics		3
Total		16

Semester 3		Cr. Hrs.
BCHM 322 Analytical BCHM II		2
BCHM 462 Metabolism		3
BCHM 498 Research		1
BIOL 203		4
BINF Selective		3
ENGL 200+		3
Total		16

Semester 4		Cr. Hrs.
BCHM 498 Research		1
HUM/SS selective (300+) (IU)		3
BCHM 465 BCHM of Life Proces		2
BCHM 490 Seminar		1
Adv. BCHM Selective		3
BIOL 204		4
BIOL 396 PRMED Planning Sem.		0
Hum/SS (IU)		3
Total		17

Summer Semester		Cr. Hrs.
Total		

Notes:

Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.
 120 total credits required.

Pre-Vet Concentration

https://catalog.purdue.edu/preview_program.php?catoid=17&poid=29691&returnto=22203

RECOMMENDED PLAN OF STUDY

Biochemistry Contact:

Heidi Fornes, hfornes@purdue.edu, biochem-boilers@purdue.edu

Courses to be Taken at Purdue

PRE-VET

Summer Semester		Cr. Hrs.
Total		

Semester 1		Cr. Hrs.
BCHM 100 Intro to BCHM		2
BIOL 231 Cell Structure/Functio		3
BIOL 232 Cell Str/Funct Lab		2
BCHM 390 Professional Dev.		1
PHYS 221		4
AGRY 320		3
AGRY 321		1
Total		16

Semester 2		Cr. Hrs.
BCHM 221 Analytical BCHM I		3
BCHM 290 - Expt design		2
BCHM 361 - Molecules		3
BCHM 498 Research		1
STAT 301		3
HUM/SS (IU)		3
VM 102		1
Total		16

Semester 3		Cr. Hrs.
BCHM 322 Analytical BCHM II		2
BCHM 462 Metabolism		3
BCHM 498 Research		2
BIOL 221 Microbiology		4
BINF Selective		3
Total		14

Semester 4		Cr. Hrs.
BCHM 498 Research		1
HUM/SS Sel 300+		3
BCHM 465 BCHM of Life Proces		2
BCHM 490 Seminar		1
Adv. BCHM Selective		3
ENGL/COMM 200+		3
Total		13

Summer Semester		Cr. Hrs.
Total		

Notes:

Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.
120 total credits required.