

## Associate to Bachelors (A2B) Articulation Agreement

### Prescribed Curriculum: Gillette College

#### Associate of Science – Biology (*Pre-Professional Program – Track III*)

General Education Courses			27 - 30 CREDIT HOURS
	Credit Hours	Community College Course No.	Course Title or Category
Science	4	BIOL 1010	General Biology I
Mathematics	4 - 7 <sup>1</sup>	MATH 1405, or MATH 2200	Trigonometry, or Calculus I
Cultural Studies	3	Select 1 course from	Cultural Studies “Global Diversity” or “Foreign Language” categories
	3	Select 1 course from	Cultural Studies “Social and Behavioral Sciences” category
US & WY Constitutions	3	HIST 1211, or 1221, or 1251, or POLS 1000	US to 1865, or US from 1865, or Wyoming History, or American and Wyoming Government
Communication	3	ENGL 1010	English Composition I
	3	COMM 2010	Public Speaking
General Education Course of Choice	4 <sup>1</sup>	MATH 1400, or PHYS 1320	College Algebra, or College Physics II

<sup>1</sup>College Algebra-ready students take MATH 1400 (4 cr), MATH 1405 (3 cr), and MATH 2200 (4 cr); Calculus-ready students take MATH 2200 (4 cr) and PHYS 1320 (4 cr)

Required Courses			25 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Biology & Chemistry	1	BIOL 1001	Biology Orientation
	4	BIOL 2020	General Biology II
	4	CHEM 1020	General Chemistry I
	4	MOLB 2210	General Microbiology
	4	CHEM 1030	General Chemistry II
	4	CHEM 2420	Organic Chemistry I
	4	CHEM 2440	Organic Chemistry II

Program Elective Courses			8 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Program Elective	4	PHYS 1310	College Physics I
	4	ZOO 2010	Human Anatomy & Physiology I

<b>Associate of Science – Biology, Pre-Professional Total (College Algebra-ready Students):</b>	<b>63<sup>2</sup> CREDIT HOURS</b>
<b>Associate of Science – Biology, Pre-Professional Total (Calculus-ready Students):</b>	<b>60 CREDIT HOURS</b>

<sup>2</sup>59 credits count toward BS degree requirements for College Algebra-ready students (MATH 1400 does not apply)

## Post-Associate Degree Prescribed Curriculum: South Dakota Mines

### Bachelor of Science – Pre-Professional Health Sciences

General Education Courses			6 CREDIT HOURS
	Credit Hours	Community College Course No.	Course Title or Category
Written Communication	3	ENGL 289	Explorations in STEM Communications
Arts & Humanities	3	Select 1 course from	General Education Arts and Humanities (Goal 4)

Major Required Courses			9 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Biology & Chemistry	4	BIOL 326/326L	Biomedical Physiology w/Lab
	4	BIOL 371/371L	Genetics w/Lab
	1	BIOL 490	Seminar

Other Required Courses			3-6 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Mathematics & Physics	3	Select 1 course from	MATH 281 Stats or MATH 381 Probability & Stats
	3 <sup>1</sup>	PHYS 209	Fundamentals of Physics II

<sup>1</sup>Gillette College Calculus-ready students will complete 3 credits of MATH 281 or MATH 381 only (3 total credits of Other Required); College Algebra-ready students will complete 3 credits of MATH 281 or MATH 381 and 3 credits of PHYS 209 (6 total credits of Other Required)

Elective Courses			40-42 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Biology/Chemistry Upper Division Electives	12	Select with Advisor	BIOL or CHEM prefix courses at the 300 or 400 level
Humanities Upper Division Electives	3	Select with Advisor	Humanities prefix course at the 300 or 400 level
Social Science Upper Division Electives	6	Select with Advisor	Social Science prefix courses at the 300 or 400 level
Free Electives	19 – 21 <sup>2</sup>	Select with Advisor	Free Electives

<sup>2</sup>Gillette College Calculus-ready students will complete 21 credits of Free Electives (42 total credits of Electives); College Algebra-ready students will complete 19 credits of Free Electives (40 total credits of Electives)

**Post-Associate Degree Total: 60-61<sup>3</sup> CREDIT HOURS**

<sup>3</sup>Gillette College Calculus-ready students will complete 60 total credits; College Algebra-ready students will complete 61 total credits

**Bachelor of Science – Pre-Professional Health Sciences Total: 120 CREDIT HOURS**

# A2B Articulation Agreement Guarantees & Limitations

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## GUARANTEES

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Students who:

1. complete the Associate of Science - Biology, Pre-Professional Program track degree prescribed curriculum at Gillette College exactly as it is identified in this articulation agreement, **and**
2. have the degree conferred on their education record at Gillette College (post high school graduation), **and**
3. earn a minimum cumulative grade point average (GPA) of 2.75 at the Gillette College, **and**
4. pass all 60-63 credits for the associate degree, earning a grade C- or higher in each course

are **guaranteed** the following at the South Dakota School of Mines and Technology (South Dakota Mines):

1. junior standing at South Dakota Mines with no more than 60-61 remaining credits to meet the graduation requirements for the Bachelor of Science degree in Pre-Professional Health Science.
2. admission to South Dakota Mines
3. admission to the Bachelor of Science degree in Pre-Professional Health Sciences.

## LIMITATIONS

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1. This agreement is between the Associate of Science – Biology, Pre-Professional Program track degree at Gillette College and the Bachelor of Science degree in Pre-Professional Health Sciences at South Dakota Mines only.
2. Students must meet all admission and application requirements at South Dakota Mines, including the submission of all required documentation by stated deadlines. Students are advised to contact the Office of Admissions at the South Dakota Mines early in their transfer planning.
3. Student must have a cumulative grade point average (GPA) at the Gillette College of 2.75 or higher **and** only courses with grades of C- or higher are guaranteed to be accepted in transfer by South Dakota Mines.
4. The credit and course transfer guarantees described in this agreement apply to the Associate of Science – Biology, Pre-Professional Program track degree at Gillette College and the Bachelor of Science degree in Pre-Professional Health Sciences at South Dakota Mines. If the student changes majors at Gillette College or at South Dakota Mines, the student is no longer covered by this Articulation Agreement and none of the Guarantees of the Agreement apply.
5. Students utilizing any form of transfer credit, including but not limited to credit awarded from other higher education institutions, standardized exam (CLEP, AP, DSST, etc.), prior learning assessment (military, certifications, ACE recommended credit, portfolio, challenge exam, work experience equivalent credit, etc.) to satisfy any associate degree requirements will have those credits evaluated by South Dakota Mines. Should South Dakota Mines not accept the transfer credits accepted by Gillette College, the student will be required to make up the credit deficiency at South Dakota Mines.
6. No course substitutions are allowed for the courses listed in the Prescribed Curriculum for the associate degree at Gillette College.

## A2B CONTACT INFORMATION

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South Dakota Mines  
Office of the Provost  
605.394.2256  
[Provost@sdsmt.edu](mailto:Provost@sdsmt.edu)

Gillette College  
Academic & Student Affairs  
307.681.6000  
[admissions@gillettecollege.org](mailto:admissions@gillettecollege.org)



## **Appendix A: Course Sequence**

**Biology-Pre-Professional Program Track (A.S.) – College Algebra-ready Students**

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year First Semester	MATH 1400	College Algebra	4*	
	CHEM 1020	General Chemistry I	4	
	ENGL 1010	English Composition I	3	
	BIOL 1001	Biology Orientation	1	
	BIOL 1010	General Biology	4	
<i>Total Credits</i>			<b>16</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year Second Semester	MATH 1405	Trigonometry (Program Elective)	3	
	CHEM 1030	General Chemistry II	4	
	BIOL 2020	General Biology II	4	
	COMM 2010	Public Speaking (Advanced Writing)	3	
	Select 1 course from:	Cultural Studies: Global Diversity or Foreign Languages areas	3	
<i>Total Credits</i>			<b>17</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year First Semester	CHEM 2420	Organic Chemistry I (Program Elective)	4	
	ZOO 2010	Human Anatomy & Physiology I	4	
	Select 1 course from:	Cultural Studies: Social & Behavioral Science area	3	
	MATH 2200	Calculus I	4	
<i>Total Credits</i>			<b>15</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year Second Semester	MOLB 2210	General Microbiology	4	
	Select 1 course from:	HIST 1211, HIST 1221, HIST 1251, POLS 1000 (US/WY Const)	3	
	CHEM 2440	Organic Chemistry II (Program Elective)	4	
	PHYS 1310	College Physics I	4	
<i>Total Credits</i>			<b>15</b>	

<b>General Education Coursework Total:</b>		<b>30 credit hours</b>
<b>Major and Elective Coursework Total:</b>		<b>33 credit hours</b>
<b>Gillette College Coursework Total:</b>		<b>63* CREDIT HOURS</b> (59 Credits Apply)

## Course Sequence: South Dakota Mines – Fall Semester Start

### Pre-Professional Health Sciences (B.S.) – College Algebra-ready Students

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year	ENGL 289	STEM Communication for Technical and Public Audiences	3*	
First Semester - FALL	Select 1 from	MATH 281 Stats or MATH 381 Prob & Stats	3	
	PHYS 209	Fundamentals of Physics II	3	
		General Education – Arts/Humanities (Goal 4)	3*	
		Electives (U/D Biology/Chemistry)	3	
<b>Total Credits</b>			<b>15</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year	BIOL 326/326L	Biomedical Physiology w/ Lab	4	
Second Semester - SPRING	BIOL 371/371L	Genetics w/ Lab	4	
		Electives (U/D Social Science)	3	
		Electives (Free)	6	
<b>Total Credits</b>			<b>17</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year		Electives (U/D Social Science)	3	
		Electives (U/D Biology/Chemistry)	6	
		Electives (Free)	3	
		Electives (U/D Humanities)	3	
<b>Total Credits</b>			<b>15</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year	BIOL 490	Seminar	1	
Second Semester - SPRING		Electives (Free)	10	
		Electives (U/D Biology/Chemistry)	3	
<b>Total Credits</b>			<b>14</b>	

*General Education Coursework Total:	6 credit hours
Major and Elective Coursework Total:	55 credit hours
<b>South Dakota Mines Coursework Total:</b>	<b>61 CREDIT HOURS</b>

### Biology-Pre-Professional Program Track (A.S.) – Calculus-ready Students

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year First Semester	MATH 2200	Calculus I	4	
	CHEM 1020	General Chemistry I	4	
	ENGL 1010	English Composition I	3	
	BIOL 1001	Biology Orientation	1	
	BIOL 1010	General Biology	4	
<i>Total Credits</i>			<b>16</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year Second Semester	Select 1 course from:	Cultural Studies: Global Diversity or Foreign Languages areas	3	
	CHEM 1030	General Chemistry II	4	
	BIOL 2020	General Biology II	4	
	PHYS 1310	College Physics I	4	
<i>Total Credits</i>			<b>15</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year First Semester	CHEM 2420	Organic Chemistry I (Program Elective)	4	
	PHYS 1320	College Physics II	4	
	COMM 2010	Public Speaking (Advanced Writing)	3	
	ZOO 2010	Human Anatomy & Physiology I	4	
<i>Total Credits</i>			<b>15</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year Second Semester	MOLB 2210	General Microbiology	4	
	CHEM 2440	Organic Chemistry II (Program Elective)	4	
	Select 1 course from:	HIST 1211, HIST 1221, HIST 1251, POLS 1000 (US/WY Const)	3	
	Select 1 course from:	Cultural Studies: Social & Behavioral Science area	3	
<i>Total Credits</i>			<b>14</b>	

General Education Coursework Total:			<b>27 credit hours</b>
Major and Elective Coursework Total:			<b>33 credit hours</b>
<b>Gillette College Coursework Total:</b>			<b>60 CREDIT HOURS</b>

## Course Sequence: South Dakota Mines – Fall Semester Start

### Pre-Professional Health Sciences (B.S.) – Calculus-ready Students

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year First Semester - FALL	ENGL 289	STEM Communication for Technical and Public Audiences	3*	
	Select 1 from	MATH 281 Stats or MATH 381 Prob & Stats	3	
		Electives (U/D Biology/Chemistry)	3	
		General Education – Arts/Humanities (Goal 4)	3*	
		Free Electives	3	
<b>Total Credits</b>			<b>15</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year Second Semester - SPRING	BIOL 326/326L	Biomedical Physiology w/ Lab	4	
	BIOL 371/371L	Genetics w/ Lab	4	
		Electives (U/D Social Science)	3	
		Electives (Free)	6	
	<b>Total Credits</b>			<b>17</b>

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year First Semester - FALL		Electives (U/D Social Science)	3	
		Electives (U/D Biology/Chemistry)	5	
		Electives (Free)	3	
		Electives (U/D Humanities)	3	
<b>Total Credits</b>			<b>14</b>	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year Second Semester - SPRING	BIOL 490	Seminar	1	
		Electives (Free)	9	
		Electives (U/D Biology/Chemistry)	4	
<b>Total Credits</b>			<b>14</b>	

		*General Education Coursework Total:	6 credit hours
		Major and Elective Coursework Total:	54 credit hours
		<b>South Dakota Mines Coursework Total:</b>	<b>60 CREDIT HOURS</b>