

SOUTH DAKOTA BOARD OF REGENTS

Academic and Student Affairs
Consent

AGENDA ITEM: 5 – H (2)
DATE: April 2-3, 2025

SUBJECT

Articulation Agreements – SDSMT

CONTROLLING STATUTE, RULE, OR POLICY

[BOR Policy 2.2.2.1](#) – Seamless Transfer of Credit

[BOR Policy 2.2.2.3](#) – External (Non-Regental System) Accredited University/College
Transfer of Credit

BACKGROUND / DISCUSSION

BOR Policy 2.2.2.1 – Seamless Transfer of Credit establishes requirements for institutions seeking to develop program level agreements for interested transfer students. The policy further establishes the distinction between AA, AS, and AAS degrees which are classified as transferable, terminal, or non-transferable degrees (respectively). Agreements established with regionally accredited institutions must be developed in conjunction with the faculty, following all institutional guidelines and are monitored as a function of the institutional program review process. Once approved, the agreements apply only at Regental institutions with equivalent programs.

IMPACT AND RECOMMENDATION

To comply with BOR Policy 2.2.2.1, South Dakota School of Mines & Technology requests approval of following articulation agreements:

- Students who have completed an AS degree in Biology (Biochemical & Molecular Biology – Track I) at Gillette College may apply up to 60 credits toward the BS in Biology – Molecular Biology Specialization.
- Students who have completed an AS degree in General Science at Gillette College may apply up to 60 credits toward the BS in Chemistry.
- Students who have completed an AS degree in Biology (Pre-Professional Program – Track III) at Gillette College may apply up to 60 credits toward the BS in Pre-Professional Health Sciences.

ATTACHMENTS

Attachment I – SDSMT Articulation Agreements

DRAFT MOTION 20250402_5-H(2):

I move to approve South Dakota School of Mines & Technology to finalize and execute the articulation agreements with Gillette College in substantially similar form to that set forth in Attachment I.

Associate to Bachelors (A2B) Articulation Agreement

Prescribed Curriculum: Gillette College

Associate of Science – Biology (*Biochemical & Molecular Biology – Track I*)

General Education Courses			27 CREDIT HOURS
	Credit Hours	Community College Course No.	Course Title or Category
Science	4	BIOL 1010	General Biology I
Mathematics	4	MATH 2200	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	Select 1 course from	HIST 1211 US to 1865, HIST 1221 US from 1865, HIST 1251 Wyoming History, or POLS 1000 American and Wyoming Government
Communication	3	ENGL 1010	English Composition I
	3	COMM 2010	Public Speaking
Gen Ed Course of Choice	4	CHEM 1020	General Chemistry I

Required Courses			14 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Biology & Chemistry	1	BIOL 1001	Biology Orientation
	4	BIOL 2020	General Biology II
	3	BIOL 2400	General Ecology
	2	BIOL 2410	Intro to Field Ecology
	4	CHEM 1030	General Chemistry II

Program Elective Courses			19 ¹ -20 ² CREDIT HOURS
	Credit Hours	Course No.	Course Title
General Elective	4	MATH 1400 ¹ , or PHYS 1320 ²	College Algebra, or College Physics II
Program Elective	3 ¹ - 4 ²	MATH 1405 ¹ CHEM 2410 ²	Trigonometry, or Organic Chemistry I
	4	MOLB 2210	General Microbiology
	4	PHYS 1310	College Physics I
	4	MATH 2205	Calculus II

¹College Algebra-ready Students

²Calculus-ready Students

Associate of Science-Biology, Biochem/Molecular Total (College Algebra-ready Students): 60¹ CREDIT HOURS
Associate of Science-Biology, Biochem/Molecular Total (Calculus-ready Students): 61² CREDIT HOURS

¹56 credits count toward the BS degree requirements for College Algebra-ready Students (MATH 1400 does not apply)

²60 credits count toward the BS degree requirements for Calculus-ready Students

Post-Associate Degree Prescribed Curriculum: South Dakota Mines

Bachelor of Science – Biology, Molecular Biology Specialization

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		26-31 CREDIT HOURS	
	Credit Hours	Course No.	Course Title
Biology & Chemistry	4	BIOL 371/371L	Genetics w/Lab
	3	BIOL 375	Current Bioethical Issues
	3	BIOL 446	Molecular Cell Biology
	3	BIOL 480	Bioinformatics
	1	BIOL 490	Seminar
	5 ¹	CHEM 326/326L	Organic Chemistry I w/Lab
	5	CHEM 328/328L	Organic Chemistry II w/Lab
	4	CHEM 464/464L	Biochemistry I w/ Lab
	3	CHEM 465	Biochemistry II

¹Gillette College Calculus-ready students will complete all courses listed except CHEM 326/326L (26 total credits of Major Required); College Algebra-ready students will complete all courses listed (31 total credits of Major Required)

Other Required Courses		3-6 CREDIT HOURS	
	Credit Hours	Course No.	Course Title
Mathematics & Physics	3 ²	PHYS 209	Fundamentals of Physics II
	3	Select 1 course from	MATH 321 Diff Equations or MATH 381 Probability & Stats

²Gillette College Calculus-ready students will complete 3 credits of MATH 321 or MATH 381 only (3 total credits of Other Required); College Algebra-ready students will complete 3 credits of MATH 321 or MATH 381 and 3 credits of PHYS 209 (6 total credits of Other Required)

Elective Courses		17-25 CREDIT HOURS	
	Credit Hours	Course No.	Course Title
Free Electives	9-13 ³	Select with Advisor	Free Electives
Specialization Elec	12	Select from List	Molecular Biology Specialization Approved Electives

³Gillette College Calculus-ready students will complete 13 credits of Free Electives (25 total credits of Electives); College Algebra-ready students will complete 9 credits of Free Electives (21 total credits of Electives)

Post-Associate Degree Total: 60-64⁴ CREDIT HOURS

⁴Gillette College Calculus-ready students will complete 60 total credits; College Algebra-ready students will complete 64 total credits (MATH 1400 does not apply)

Bachelor of Science – Biology Total: 120 CREDIT HOURS

A2B Articulation Agreement Guarantees & Limitations

GUARANTEES

Students who:

1. complete the Associate of Science – Biology, Biochemical & Molecular Biology 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 60-61 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 60-64 remaining credits to meet the graduation requirements for the Bachelor of Science degree in Biology, Molecular Biology specialization.
2. admission to South Dakota Mines
3. admission to the Bachelor of Science degree in Biology, Molecular Biology specialization.

LIMITATIONS

1. This agreement is between the Associate of Science – Biology, Biochemical & Molecular Biology track degree at Gillette College and the Bachelor of Science degree in Biology, Molecular Biology specialization 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, Biochemical & Molecular Biology track degree at Gillette College and the Bachelor of Science degree in Biology, Molecular Biology specialization 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

South Dakota Mines
Office of the Provost
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Gillette College
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307.681.6000

Provost@sdsmt.eduadmissions@gillettecollege.org

RENEWAL, REVISION, and TERMINATION

1. This Associate to Bachelor Articulation Agreement (A2B) shall be in effect July 1 – June 30 each year and will automatically renew annually unless action is taken by South Dakota Mines or Gillette College to terminate or modify it.
2. The South Dakota Mines Office of the Provost and the Gillette College Academic and Student Affairs department will collaborate to coordinate a review of the content of the associate and bachelor degrees on a three-year cycle to ensure this A2B is still appropriate.
3. South Dakota Mines and the Gillette College each reserve the right to seek revision of this agreement at any time.
4. Revision of any content of the agreement (except Appendices content) will be approved by each institution and result in a new agreement being signed, with copies retained by each institution.
 - a. Revision to any Appendices will be communicated to each institution, but do not need to be approved by each institution and will not result in a new agreement being signed by each institution.
5. South Dakota Mines and the Gillette College each reserve the right to seek termination of this agreement at any time.
6. Should the agreement be terminated, each institution agrees to collaborate and engage in appropriate plans to notify and work with impacted students, providing a minimum one-year advance notice of termination.

APPROVALS

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Appendix A: Course Sequence

Course Sequence: Gillette College



Biology – Biochemistry & Molecular Biology 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	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year Second Semester	MATH 1405	Trigonometry	3	
	CHEM 1030	General Chemistry II	4	
	BIOL 2020	General Biology II	4	
	COMM 2010	Public Speaking (Advanced Writing)	3	
Total Credits			14	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year First Semester	BIOL 2400	General Ecology	3	
	BIOL 2410	Intro to Field Ecology	2	
	Select 1 course from:	Cultural Studies: Foreign Language or Global Diversity areas	3	
	MATH 2200	Calculus I	4	
	Select 1 course from:	Cultural Studies: Social & Behavioral Science area	3	
Total Credits			15	

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	
	MATH 2205	Calculus II	4	
	PHYS 1310	College Physics I	4	
Total Credits			15	

General Education Coursework Total:	27 credit hours
Major and Elective Coursework Total:	33 credit hours
Gillette College Coursework Total:	60* CREDIT HOURS (56 Credits Apply)



Course Sequence: South Dakota Mines – Fall Semester Start

Biology, Molecular Biology Specialization (B.S.) – College Algebra-ready Students

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year First Semester - FALL	CHEM 326/326L	Organic Chemistry I w/Lab	5	
	ENGL 289	STEM Communication for Technical & Public Audiences	3*	
	PHYS 209	Fundamentals of Physics II	3	
		General Education – Arts/Humanities (Goal 4)	3*	
<i>Total Credits</i>			14	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year Second Semester - SPRING	CHEM 328/328L	Organic Chemistry II w/Lab	5	
	BIOL 371/371L	Genetics w/Lab	4	
	BIOL 375	Current Bioethical Issues	3	
	Select 1 from	MATH 321 Diff Equations or MATH 381 Prob & Stats	3	
<i>Total Credits</i>			15	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year First Semester - FALL	CHEM 464/464L	Biochemistry I w/Lab	4	
	BIOL 446	Molecular Cell Biology	3	
		Free Electives	5	
		Specialization Electives	4	
<i>Total Credits</i>			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year Second Semester - SPRING	CHEM 465	Biochemistry II	3	
	BIOL 480	Bioinformatics	3	
	BIOL 490	Seminar	1	
		Free Electives	4	
		Specialization Electives	8	
<i>Total Credits</i>			15	

*General Education Coursework Total: 6 credit hours

Major and Elective Coursework Total: 58 credit hours

South Dakota Mines Coursework Total: 64 CREDIT HOURS

Biology – Biochemistry & Molecular Biology 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	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year Second Semester	MATH 2205	Calculus II	4	
	CHEM 1030	General Chemistry II	4	
	BIOL 2020	General Biology II	4	
	PHYS 1310	College Physics I	4	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year First Semester	CHEM 2410	Organic Chemistry I	4	
	BIOL 2400	General Ecology	3	
	BIOL 2410	Intro to Field Ecology	2	
	COMM 2010	Public Speaking (Advanced Writing)	3	
	PHYS 1320	College Physics II	4*	
Total Credits			16	

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	
	Select 1 course from:	Cultural Studies: Foreign Language or Global Diversity areas	3	
	Select 1 course from:	Cultural Studies: Social & Behavioral Science area	3	
Total Credits			13	

General Education Coursework Total:	27 credit hours
Major and Elective Coursework Total:	34 credit hours
Gillette College Coursework Total:	61* CREDIT HOURS (60 Credits Apply)

Course Sequence: South Dakota Mines – Fall Semester Start



Biology, Molecular Biology Specialization (B.S.) – Calculus-ready Students

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year First Semester - FALL	ENGL 289	STEM Communication for Technical & Public Audiences	3*	
	Select 1 from	MATH 321 Diff Equations or MATH 381 Prob & Stats	3	
		General Education – Arts/Humanities (Goal 4)	3*	
		Specialization Electives	4	
		Free Electives	1	
Total Credits			14	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year Second Semester - SPRING	CHEM 328/328L	Organic Chemistry II w/Lab	5	
	BIOL 375	Current Bioethical Issues	3	
	BIOL 371/371L	Genetics w/ Lab	4	
		Free Electives	3	
Total Credits			15	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year First Semester - FALL	CHEM 464/464L	Biochemistry I w/Lab	4	
	BIOL 446	Molecular Cell Biology	3	
		Free Electives	6	
		Specialization Electives	3	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year Second Semester - SPRING	CHEM 465	Biochemistry II	3	
	BIOL 480	Bioinformatics	3	
	BIOL 490	Seminar	1	
		Free Electives	3	
		Specialization Electives	5	
Total Credits			15	

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

Associate to Bachelors (A2B) Articulation Agreement

Prescribed Curriculum: Gillette College

Associate of Science – General Science

General Education Courses			27 CREDIT HOURS
	Credit Hours	Community College Course No.	Course Title or Category
Science	4	CHEM 1020	General Chemistry I
Mathematics	4	MATH 2200	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	Select 1 course from	HIST 1211 US to 1865, HIST 1221 US from 1865, HIST 1251 Wyoming History, or POLS 1000 American and Wyoming Government
Communication	3	ENGL 1010	English Composition I
	3	COMM 2010	Public Speaking
Gen Ed Course of Choice	4	CHEM 1030	General Chemistry II

Elective Courses			33 CREDIT HOURS
	Credit Hours	Course No.	Course Title
General Electives	4	CHEM 2420	Organic Chemistry I
Program Electives	4	CHEM 2440	Organic Chemistry II
	4 ¹	MATH 1400, or PHYS 1320	College Algebra, or College Physics II
	3 ²	MATH 1405, or MATH 2250	Trigonometry, or Elementary Linear Algebra
	4	MATH 2205	Calculus II
	3	MATH 2310	Applied Differential Equations
	4	PHYS 1310	College Physics I
	7	Select from	Approved courses on Program Electives list

¹College Algebra-ready Students take MATH 1400; Calculus-ready Students take PHYS 1320

²College Algebra-ready Students take MATH 1405; Calculus-ready Students take MATH 2250

Associate of Science – General Science Total: 60³ CREDIT HOURS

³56 credits count toward the BS degree requirements for College Algebra-ready Students (MATH 1400 does not apply)

Post-Associate Degree Prescribed Curriculum: South Dakota Mines

Bachelor of Science – Chemistry

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			34 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Chemistry	2	CHEM 328L	Organic Chemistry II Lab
	4	CHEM 332/332L	Analytical Chemistry w/ Lab
	3	CHEM 342	Physical Chemistry I
	3	CHEM 352	Systematic Inorganic Chemistry
	3	CHEM 482	Environmental Chemistry
	5	CHEM 344/344L	Physical Chemistry II w/ Lab
	4	CHEM 452/452L	Inorganic Chemistry w/ Lab
	3	CHEM 464	Biochemistry I
	1	CHEM 490	Seminar
	1	CHEM 370	Chemical Literature
	5	CHEM 434/434L	Instrumental Analysis w/ Lab

Other Required Courses			0-4 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Physics	4 ¹	PHYS 209/209L	Fundamentals of Physics II

¹Gillette College Calculus-ready students will complete 0 total credits of Other Required; College Algebra-ready students will complete 4 credits of PHYS 209/209L (4 total credits of Major Required)

Elective Courses			20 CREDIT HOURS
	Credit Hours	Course No.	Course Title
Free Electives	17	Select with Advisor	Free Electives
Program Electives	3	Select 1 course from	CHEM 420, 421, 426, 462, or 465

Post-Associate Degree Total: 60-64² CREDIT HOURS

²Gillette College Calculus-ready students will complete 60 total credits; College Algebra-ready students will complete 64 total credits (MATH 1400 does not apply)

Bachelor of Science – Chemistry Total: 120 CREDIT HOURS

A2B Articulation Agreement Guarantees & Limitations

GUARANTEES

Students who:

1. complete the Associate of Science - General Science 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 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 60-64 remaining credits to meet the graduation requirements for the Bachelor of Science degree in Chemistry.
2. admission to South Dakota Mines
3. admission to the Bachelor of Science degree in Chemistry.

LIMITATIONS

1. This agreement is between the Associate of Science – General Science degree at Gillette College and the Bachelor of Science degree in Chemistry 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 – General Science degree at Gillette College and the Bachelor of Science degree in Chemistry 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.
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6. No course substitutions are allowed for the courses listed in the Prescribed Curriculum for the associate degree at Gillette College.

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Date

Appendix A: Course Sequence

Course Sequence: Gillette College



General Science (A.S.) – College Algebra-Ready

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	
	Select 1 course from:	Cultural Studies: Global Diversity or Foreign Languages areas	3	
<i>Total Credits</i>			14	

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year Second Semester	MATH 1405	Trigonometry	3	
	CHEM 1030	General Chemistry II	4	
	Select 1 course from:	US/WY Constitution: HIST 1211, 1221, 1251, or POLS 1000	3	
	COMM 2010	Public Speaking	3	
	Select 1 course from:	GEOL 1100, BIOL 1010, or other approved Program Elective	3	
<i>Total Credits</i>			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year First Semester	CHEM 2420	Organic Chemistry I	4	
	MATH 2200	Calculus I	4	
	Select 1 course from:	Cultural Studies: Social & Behavioral Science area	3	
	Select 1 course from:	GEOL 1100, BIOL 1010, or other approved Program Elective	4	
<i>Total Credits</i>			15	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year Second Semester	CHEM 2440	Organic Chemistry II	4	
	MATH 2310	Applied Differential Equations	3	
	MATH 2205	Calculus II	4	
	PHYS 1310	College Physics I	4	
<i>Total Credits</i>			15	

General Education Coursework Total:	27 credit hours
Major and Elective Coursework Total:	33 credit hours
Gillette College Coursework Total:	60* CREDIT HOURS (56 Credits Apply)



Course Sequence: South Dakota Mines – Fall Semester Start

Chemistry (B.S.) – College Algebra-Ready: EVEN YEAR START

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year First Semester - FALL	CHEM 332/332L	Analytical Chemistry w/ Lab	4	
	CHEM 352	Systematic Inorganic Chemistry	3	
	CHEM 482	Environmental Chemistry	3	
	ENGL 289	STEM Communication for Technical and Public Audiences	3*	
		General Education – Arts/Humanities (Goal 4)	3*	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year Second Semester - SPRING	CHEM 452/452L	Inorganic Chemistry w/ Lab	4	
	CHEM 328L	Organic Chemistry II Lab	2	
	PHYS 209/209L	Fundamentals of Physics II w/Lab	4	
		Free Electives	6	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year First Semester - FALL	Select 1 course from	Program Electives: CHEM 420, 421, 426, 462, or 465	3	
	CHEM 464	Biochemistry I	3	
	CHEM 342	Physical Chemistry I	3	
		Free Electives	7	
	CHEM 490	Seminar	1	
Total Credits			17	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year Second Semester - SPRING	CHEM 370	Chemical Literature	1	
	CHEM 434/434L	Instrumental Analysis w/ Lab	5	
	CHEM 344/344L	Physical Chemistry II w/ Lab	5	
		Free Electives	4	
Total Credits			15	

*General Education Coursework Total:	6 credit hours
Major and Elective Coursework Total:	58 credit hours
South Dakota Mines Coursework Total:	64 CREDIT HOURS



Course Sequence: South Dakota Mines – Fall Semester Start

Chemistry (B.S.) – College Algebra-Ready: ODD YEAR START

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year First Semester - FALL	CHEM 332/332L	Analytical Chemistry w/ Lab	4	
	Chem 464	Biochemistry I	3	
	ENGL 289	STEM Communication for Technical and Public Audiences	3*	
		General Education – Arts/Humanities (Goal 4)	3*	
		Free Electives	3	
<i>Total Credits</i>			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year Second Semester - SPRING	CHEM 434/434L	Instrumental Analysis w/ Lab	5	
	CHEM 328L	Organic Chemistry II Lab	2	
	CHEM 370	Chemical Literature	1	
	PHYS 209/209L	Fundamentals of Physics II w/Lab	4	
		Free Electives	4	
<i>Total Credits</i>			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year First Semester - FALL	Select 1 course from	Program Electives: CHEM 420, 421, 426, 462, or 465	3	
	CHEM 352	Systematic Inorganic Chemistry	3	
	CHEM 342	Physical Chemistry I	3	
	CHEM 482	Environmental Chemistry	3	
		Free Electives	4	
	CHEM 490	Seminar	1	
<i>Total Credits</i>			17	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year Second Semester - SPRING	CHEM 452/L	Inorganic Chemistry/Lab	4	
	CHEM 344/344L	Physical Chemistry II w/ Lab	5	
		Free Electives	6	
<i>Total Credits</i>			15	

*General Education Coursework Total: 6 credit hours

Major and Elective Coursework Total: 58 credit hours

South Dakota Mines Coursework Total: 64 CREDIT HOURS

Course Sequence: Gillette College



General Science (A.S.) – Calculus-Ready

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	
	Select 1 course from:	Cultural Studies: Global Diversity or Foreign Languages areas	3	
	Select 1 course from:	GEOL 1100, BIOL 1010, or other approved Program Elective	3	
Total Credits			17	

Semester	Course No.	Course Title	Credit Hours	Completed
Freshman Year Second Semester	MATH 2205	Calculus II	4	
	CHEM 1030	General Chemistry II	4	
	PHYS 1310	College Physics I	4	
	COMM 2010	Public Speaking	3	
Total Credits			15	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year First Semester	CHEM 2410	Organic Chemistry I	4	
	PHYS 1320	College Physics II	4	
	Select 1 course from:	US/WY Constitution: HIST 1211, 1221, 1251, or POLS 1000	3	
	MATH 2250	Elementary Linear Algebra	3	
Total Credits			14	

Semester	Course No.	Course Title	Credit Hours	Completed
Sophomore Year Second Semester	CHEM 2440	Organic Chemistry II	4	
	MATH 2310	Applied Differential Equations	3	
	Select 1 course from:	Cultural Studies: Social & Behavioral Science area	3	
	Select 1 course from:	GEOL 1100, BIOL 1010, or other approved Program Elective	4	
Total Credits			14	

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



Course Sequence: South Dakota Mines – Fall Semester Start

Chemistry (B.S.) – Calculus-Ready: EVEN YEAR START

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year First Semester - FALL	CHEM 332/332L	Analytical Chemistry w/ Lab	4	
	CHEM 352	Systematic Inorganic Chemistry	3	
	CHEM 482	Environmental Chemistry	3	
	ENGL 289	STEM Communication for Technical and Public Audiences	3*	
		General Education – Arts/Humanities (Goal 4)	3*	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year Second Semester - SPRING	CHEM 452/452L	Inorganic Chemistry w/ Lab	4	
	CHEM 328L	Organic Chemistry II Lab	2	
		Free Electives	9	
Total Credits			15	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year First Semester - FALL	Select 1 course from	Program Electives: CHEM 420, 421, 426, 462, or 465	3	
	CHEM 464	Biochemistry I	3	
	CHEM 342	Physical Chemistry I	3	
	CHEM 490	Seminar	1	
		Free Electives	4	
Total Credits			14	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year Second Semester - SPRING	CHEM 370	Chemical Literature	1	
	CHEM 434/434L	Instrumental Analysis w/ Lab	5	
	CHEM 344/344L	Physical Chemistry II w/ Lab	5	
		Free Electives	4	
Total Credits			15	

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



Course Sequence: South Dakota Mines – Fall Semester Start

Chemistry (B.S.) – Calculus-Ready: ODD YEAR START

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year First Semester - FALL	CHEM 332/332L	Analytical Chemistry w/ Lab	4	
	CHEM 342	Physical Chemistry I	3	
	Chem 464	Biochemistry I	3	
	ENGL 289	STEM Communication for Technical and Public Audiences	3*	
		General Education – Arts/Humanities (Goal 4)	3*	
Total Credits			16	

Semester	Course No.	Course Title	Credit Hours	Completed
Junior Year Second Semester - SPRING	CHEM 328L	Organic Chemistry II Lab	2	
	CHEM 370	Chemical Literature	1	
	CHEM 344/344L	Physical Chemistry II w/ Lab	5	
	CHEM 434/434L	Instrumental Analysis w/ Lab	5	
		Free Electives	2	
Total Credits			15	

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year First Semester - FALL	CHEM 352	Systematic Inorganic Chemistry	3	
	CHEM 482	Environmental Chemistry	3	
	CHEM 490	Seminar	1	
		Free Electives	7	
	Total Credits			14

Semester	Course No.	Course Title	Credit Hours	Completed
Senior Year Second Semester - SPRING	CHEM 452/L	Inorganic Chemistry/Lab	4	
	Select 1 course from	Program Electives: CHEM 420, 421, 426, 462, or 465	3	
		Free Electives	8	
	Total Credits			15

*General Education Coursework Total: 6 credit hours

Major and Elective Coursework Total: 54 credit hours

South Dakota Mines Coursework Total: 60 CREDIT HOURS

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 ¹	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 ¹	MATH 1400, or PHYS 1320	College Algebra, or College Physics II

¹College 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

Associate of Science – Biology, Pre-Professional Total (College Algebra-ready Students):	63² CREDIT HOURS
Associate of Science – Biology, Pre-Professional Total (Calculus-ready Students):	60 CREDIT HOURS

²59 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 ¹	PHYS 209	Fundamentals of Physics II

¹Gillette 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 ²	Select with Advisor	Free Electives

²Gillette 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: 60-61³ CREDIT HOURS

³Gillette 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

GUARANTEES

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

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

South Dakota Mines
Office of the Provost
605.394.2256
Provost@sdsmt.edu

Gillette College
Academic & Student Affairs
307.681.6000
admissions@gillettecollege.org

RENEWAL, REVISION, and TERMINATION

1. This Associate to Bachelor Articulation Agreement (A2B) shall be in effect July 1 – June 30 each year and will automatically renew annually unless action is taken by South Dakota Mines or Gillette College to terminate or modify it.
2. The South Dakota Mines Office of the Provost and the Gillette College Academic and Student Affairs department will collaborate to coordinate a review of the content of the associate and bachelor degrees on a three-year cycle to ensure this A2B is still appropriate.
3. South Dakota Mines and the Gillette College each reserve the right to seek revision of this agreement at any time.
4. Revision of any content of the agreement (except Appendices content) will be approved by each institution and result in a new agreement being signed, with copies retained by each institution.
 - a. Revision to any Appendices will be communicated to each institution, but do not need to be approved by each institution and will not result in a new agreement being signed by each institution.
5. South Dakota Mines and the Gillette College each reserve the right to seek termination of this agreement at any time.
6. Should the agreement be terminated, each institution agrees to collaborate and engage in appropriate plans to notify and work with impacted students, providing a minimum one-year advance notice of termination.

APPROVALS

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Date

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Date

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Date

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Date

Appendix A: Course Sequence

Course Sequence: Gillette College


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>			16	

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>			17	

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>			15	

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>			15	

General Education Coursework Total:	30 credit hours
Major and Elective Coursework Total:	33 credit hours
Gillette College Coursework Total:	63* CREDIT HOURS (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 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	
	PHYS 209	Fundamentals of Physics II	3	
		General Education – Arts/Humanities (Goal 4)	3*	
		Electives (U/D Biology/Chemistry)	3	
Total Credits			15	

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	
	Total Credits			17

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

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

*General Education Coursework Total: 6 credit hours

Major and Elective Coursework Total: 55 credit hours

South Dakota Mines Coursework Total: 61 CREDIT HOURS

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>			16	

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>			15	

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>			15	

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>			14	

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



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	
Total Credits			15	

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	
	Total Credits			17

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	
Total Credits			14	

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	
	Total Credits			14

*General Education Coursework Total: 6 credit hours

Major and Elective Coursework Total: 54 credit hours

South Dakota Mines Coursework Total: 60 CREDIT HOURS