SOUTH DAKOTA MINES
An engineering, science and technology university

GilletteCollege

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

[1]College Algebra-ready Students take MATH 1400; Calculus-ready Students take PHYS 1320
[2]College Algebra-ready Students take MATH 1405; Calculus-ready Students take MATH 2250

Associate of Science – General Science Total: 60[3] CREDIT HOURS

[3]56 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

[1]Gillette 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: **60-64[2] CREDIT HOURS**

[2]Gillette 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.
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

Signed by:
Brian Tande
52015E7DB0A34E5...

4/9/2025

Brian Tande, Ph.D. Date
President
South Dakota Mines
Brian.Tande@sdsmt.edu

Signed by:
Janell Oberlander
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4/9/2025

Janell Oberlander, Ed.D. Date
President
Gillette College
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DocuSigned by:
Lance Roberts
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4/9/2025

Lance Roberts, Ph.D. Date
Provost and Vice President for Academic Affairs
South Dakota Mines
Lance.Roberts@sdsmt.edu

Signed by:
Barry Spriggs
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4/8/2025

Barry Spriggs, Ph.D. Date
Vice President for Academic and Student Affairs
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Signed by:
Zhengtao Zhu
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4/9/2025

Zhengtao Zhu, Ph.D. Date
Department Head
South Dakota Mines
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Signed by:
Martin Fashbaugh
1FB80B279ED64FE...

4/3/2025

Martin Fashbaugh Date
Dean of Arts and Sciences
Gillette College
MFashbaugh@gillettecollege.org

Appendix A: Course Sequence

Course Sequence: Gillette College

GilletteCollege

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	
		Total Credits	*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	
		Total Credits	*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	
		Total Credits	*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	
		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

SOUTH DAKOTA MINES
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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

SOUTH DAKOTA MINES
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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	
		Total Credits	***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	
		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 352	Systematic Inorganic Chemistry	3	
	CHEM 342	Physical Chemistry I	3	
	CHEM 482	Environmental Chemistry	3	
		Free Electives	4	
	CHEM 490	Seminar	1	
		Total Credits	***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	
		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: Gillette College

GilletteCollege

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

SOUTH DAKOTA MINES
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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

SOUTH DAKOTA MINES
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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**