



Engineering - 2 Year Plan

Associate in Science

Advising Worksheet* 2017-2018

Total Degree Credits

73-75

Note: Courses listed on advising worksheet are suggested. Students should consult with their advisor concerning their unique transfer decisions.

1st Year

Arts & Humanities

1.	3
2.	3

Communications I

ENGL 110	College Composition I	3
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Communications II (Select one of the following:)

ENGL 120	College Composition II	3
ENGL 125	Introduction to Professional Writing	

Engineering Electives

ENGR 101	Graphical Communication	3
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Enrichment

1.	2
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Math, Science & Technology

CHEM 121/121L	General Chemistry I/Lab	5
CHEM 122/122L	General Chemistry II/Lab	5
MATH 165	Calculus I	4
MATH 166	Calculus II	4

Total Credits 35

2nd Year

Communications III

COMM 110	Fundamentals of Public Speaking	3
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Electives

ENGR 201	Statics	3
MATH 227	Applied Linear Algebra	3
MATH 265	Calculus III	4
MATH 266	Introduction to Differential Equations	3
PHYS 251/251L	University Physics I/Lab	5
PHYS 252/252L	University Physics II/Lab	5

Engineering Electives (Select two courses from Engineering Electives)

1.	6-8
2.	

Social & Behavioral Sciences

ECON 201	Principles of Microeconomics	3
1.		3

Total Credits 38-40

Engineering Electives

CAD 211	Computer Aided Design I	3
CHEM 241/241L	Organic Chemistry I/Lab	5
CHEM 242/242L	Organic Chemistry II/Lab	5
CT 251/251L	Materials Testing/Lab (Spring only)	4
EE 206/206L	Circuit Analysis/Lab	4
ENGR 202	Dynamics	3

Engineering Electives (continued)

ENGR 203	Mechanics of Materials (Spring only)	3
ENGR 204/204L	Surveying I/Lab (Fall only)	4
ENGR 241	Thermodynamics I (Spring only)	3
GEOL 102/102L	Historical Geology/Lab	4
GEOL 105/105L	Physical Geology/Lab	4
MATH 220	Probability and Statistics (Spring only)	3

*This advising worksheet is unofficial and to be used for class planning purposes only. Please refer to the official catalog at <http://catalog.bismarckstate.edu/> for the complete listing of college degree requirements.

Associate in Science (AS)

2017-2018 Catalog

Legend

(*) Course not approved as GERTA

(**) Course may satisfy requirements with permission from the Department Chair and Associate Vice President for Academic Affairs

(D) Course meets diversity requirement (can also be used to meet general education requirements)

(F) Course designated as Fine Arts

General Education Requirements

Category I: COMMUNICATIONS

Completed_____ Needed_____

Communications I

(3 Credits) - ENGL 110

Gr.	Cr.			Transfer Course
	3	ENGL 110	College Composition I	

Communications II

(3 credits) ENGL 120 or 125 (Select one)

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.		
	3	ENGL 120	College Composition II		3	ENGL 125	Introduction to Professional Writing				Transfer Course

Communications III

(3 credits) - COMM 110

Gr.	Cr.			Transfer Course
	3	COMM 110	Fundamentals of Public Speaking	

Category II: ARTS & HUMANITIES

Completed_____ **Needed**_____

(6 Credits) - No more than 3 credits of Fine Arts activity can be used

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.					
	3	D	ART 110	Introduction to the Visual Arts		3	D	ENGL 262	American Literature II		1	F	MUSC 135	Brass Ensemble I
	3	F	ART 122	Two-Dimensional Design		3		ENGL 278	Alternative Literature		1	F	MUSC 136	Brass Ensemble II
	3	F	ART 124	Three-Dimensional Design		3		HIST 101	Western Civilization I		1	F	MUSC 137	Jazz Ensemble
	3	F	ART 130	Drawing I		3		HIST 102	Western Civilization II		1	F/	*MUSC 138	Percussion Ensemble
	3	D	ART 210	Art History I		3		HIST 103	United States to 1877		1	F	MUSC 145	Applied Music
	3	D	ART 211	Art History II		3		HIST 104	United States since 1877		1	F	MUSC 146	Applied Music - Major
	3	F	ART 220	Painting I		3	D	HIST 211	World Civilizations to 1500		3	D	PHIL 101	Introduction to Philosophy
	3	F	ART 221	Painting II		3	D	HIST 212	World Civilizations since 1500		3		PHIL 210	Ethics
	3	F	ART 230	Drawing II		3		HIST 220	North Dakota History		3		PHIL 220	Introduction to Logic
	3	F	ART 250	Ceramics I		3		HIST 222	History of the Western Frontier		3	D	PHIL 250	Philosophy in Cinema
	3	F	ART 251	Ceramics II		3		HIST 224	American Studies I		3		PHIL 253	Environmental Ethics
	2	F	ART 265	Sculpture I		3		HIST 225	American Studies II		3	D	RELS 120	Religion in America
	2	F	ART 266	Sculpture II		1-3	*	HIST 243	Historical Investigations		3		RELS 201	Life and Letters of Paul
	3		COMM 211	Oral Interpretation		3	D	HUMS 210	Integrated Cultural Studies		3	D	RELS 203	World Religions
	3		ENGL 211	Introduction to Creative Writing		1-4		HUMS 211	Integrated Cultural Excursion		3		RELS 220	Old Testament
	3	D	ENGL 221	Introduction to Drama		2		HUMS 212	Integrated Cultural Enrichment		3		RELS 230	New Testament
	3	D	ENGL 222	Introduction to Poetry		3		MUSC 100	Music Appreciation		4	D	SPAN 101	First Year Spanish I
	3	D	ENGL 233	Fantasy and Science Fiction		1	F	MUSC 117	Concert Choir		4	D	SPAN 102	First Year Spanish II
	3	D	ENGL 236	Women and Literature		1	F	MUSC 118	Chamber Choir		4	D	SPAN 201	Second Year Spanish I
	3	D	ENGL 238	Children's Literature		1	F	MUSC 121	String Ensemble		4	D	SPAN 202	Second Year Spanish II
	3	D	ENGL 251	British Literature I		1	F	MUSC 132	Wind Ensemble		3		THEA 110	Introduction to Theatre Arts
	3	D	ENGL 252	British Literature II		1	F	MUSC 133	Woodwind Ensemble I		3	F	THEA 161	Acting I
	3	D	ENGL 261	American Literature I		1	F	MUSC 134	Woodwind Ensemble II		3	F	THEA 261	Acting II

Transfer Course

Transfer Course

Transfer Course

General Education Requirements Continued

Category III: SOCIAL & BEHAVIORAL SCIENCE

Completed _____ Needed _____

(6 Credits)

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.						
_____	3	D	CJ 201	Introduction to Criminal Justice	_____	3	D	POLS 220	International Politics	_____	3	D	SOC 220	Family	
_____	3		COMM 112	Understanding Media and Social Change	_____	3		PSYC 111	Introduction to Psychology	_____	3	D	SOC 221	Minority Relations	
_____	3		COMM 212	Interpersonal Communications	_____	3	*	PSYC 211	Introduction to Behavior Modification	_____	3	D	SOC 235	Cultural Diversity	
_____	3		ECON 105	Elements of Economics	_____	3		PSYC 250	Developmental Psychology	_____	3	D	SOC 251	Gerontology	
_____	3	D	ECON 201	Principles of Microeconomics	_____	3	*	PSYC 261	Psychology of Adjustment	_____	3	D	SOC 252	Criminology	
_____	3		ECON 202	Principles of Macroeconomics	_____	3		PSYC 270	Abnormal Psychology	_____	3	D	SOC 275	American Indian Studies	
_____	3	D	GEOG 161	World Regional Geography	_____	3	D	SOC 110	Introduction to Sociology	_____	3		SWK 256	Development of Social Welfare	
_____	3		POLS 115	American Government	_____	3	D	SOC 115	Social Problems						
_____	3		POLS 116	State and Local Government											
Transfer Course					Transfer Course					Transfer Course					

Category IV: MATH, SCIENCE & TECHNOLOGY

Completed _____ Needed _____

(15 Credits) -Math - 3 credit minimum (excludes MATH 137) - Lab Science pair - 8 credit minimum

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.				
_____	3/1	ASTR 150	Meteorology/Lab	_____	4/1	CHEM 121	General Chemistry I/Lab	_____	3	*	MATH 208	Discrete Mathematics	
_____	1	* BIOL 102	Introduction to Aquarium Keeping	_____	4/1	CHEM 122	General Chemistry II/Lab	_____	3		MATH 210	Elementary Statistics	
_____	3	BIOL 109	The Living World	_____	3	CSCI 101	Introduction to Computers	_____	4	*	MATH 277	Math for Elementary Teachers I	
_____	3/1	BIOL 111	Concepts of Biology/Lab	_____	3	CSCI 122	Beginning Visual Basic	_____	3/1		MICR 202	Introductory Microbiology/Lab	
_____	3/1	D BIOL 115	Human Structure and Function/Lab	_____	4	CSCI 160	Computer Science I	_____	3	*	NUTR 240	Principles of Nutrition	
_____	3	BIOL 124	Environmental Science	_____	4	CSCI 161	Computer Science II	_____	3/1		PHYS 100	Concepts of Physics/Lab	
_____	3/1	BIOL 125	Introduction to Ecology/Lab	_____	3/1	GEOG 121	Physical Geography/Lab	_____	3/1		PHYS 110	Introductory Astronomy/Lab	
_____	3/1	BIOL 126	Human Biology/Lab	_____	3/1	GEOG 102	Historical Geology/Lab	_____	3/1		PHYS 211	College Physics I/Lab	
_____	3/1	BIOL 150	General Biology I/Lab	_____	3/1	GEOG 105	Physical Geology/Lab	_____	3/1		PHYS 212	College Physics II/Lab	
_____	3/1	BIOL 151	General Biology II/Lab	_____	3	GIS 105	Fundamentals of GIS	_____	4/1		PHYS 251	University Physics I/Lab	
_____	3/1	BIOL 220	Anatomy and Physiology I/Lab	_____	3	*	GIS 107	GIS Applications	_____	4/1		PHYS 252	University Physics II/Lab
_____	3/1	BIOL 221	Anatomy and Physiology II/Lab	_____	4		MATH 103	College Algebra	_____	2/1		PLSC 110	World Food Crops/Lab
_____	3/1	BIOL 250	Survey of Tropical Biology/Lab	_____	3		MATH 104	Finite Mathematics	_____	3/1		SCNC 101	Physical Science I/Lab
_____	3/1	BOT 170	Plant Form and Diversity/Lab	_____	2		MATH 105	Trigonometry					(Biology & Chemistry)
_____	3/1	CHEM 110	Survey of Chemistry/Lab	_____	4		MATH 107	Pre-Calculus	_____	3/1		SCNC 102	Physical Science II/Lab
_____	3/1	CHEM 112	Intro to Forensic Science/Lab	_____	3		MATH 146	Applied Calculus I					(Physics & Geology)
_____	3/1	CHEM 114	Chemistry in Art/Lab	_____	4		MATH 165	Calculus I	_____	3/1		SCNC 103	Physical Science III/Lab
_____	4/1	CHEM 115	Introductory Chemistry/Lab	_____	4		MATH 166	Calculus II					(Astronomy & Meteorology)
_____	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab						_____	2/1	*	SOIL 210	Introduction to Soil Science/Lab
Transfer Course				Transfer Course				Transfer Course					

Enrichment Requirements Completed _____ Needed _____

Completed_____ **Needed**_____

(2 Credits) A course used to meet a general education requirement can also be used to meet enrichment requirements.

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.				
	3	ART 122	Two-Dimensional Design		3	COMM 270	Basic Video Production		1	MUSC 132	Wind Ensemble
	3	ART 124	Three-Dimensional Design		1	COMM 281	Reporting and Editing: Mystician		1/1	MUSC 133/134	Woodwind Ensemble I & II
	3/3	ART 130/230	Drawing I & II		1	COMM 283	Video Lab: MystiCast		1/1	MUSC 135/136	Brass Ensemble I & II
	2/2	ART 204/205	Jewelry I & II		1	COMM 284	Radio Lab: The MYX		1	MUSC 137	Jazz Ensemble
	3/3	ART 220/221	Painting I & II		1	COMM 285	Communication Arts Lab		1	MUSC 138	Percussion Ensemble
	2/2	ART 225/226	Water Media I & II		1-3	** COMM 299	Special Topics		1/1	MUSC 145/146	Applied Music & Applied Music -Major
	3	ART 231	Figure Drawing I		3	ENGL 213	Literary Publications		1/1	MUSC 151/152	Class Piano I & II
	3/3	ART 250/251	Ceramics I & II		1-3	** ENGL 299	Special Topics		1/1	MUSC 153/154	Class Guitar-Beginner & II
	1-3	ART 252	Advanced Ceramics		1	FYE 101	Seminar on Success		1	MUSC 155	Guitar Ensemble
	2/2	ART 265/266	Sculpture I & II		2	HPER 100	Concepts of Fitness and Wellness		1	** MUSC 160	Mini-Music
	3/3	ART 270/271	Printmaking I & II		1	HPER 101	Activity: Introductory Level		1/1	MUSC 230/231	Class Voice
	1-3	** ART 299	Special Topics		1/1	HPER 150/151	Varsity Athletics		1/1	MUSC 251/252	Class Piano III & IV
	3	AUTO 101	Intro to Automotive Technology		1	HPER 202	Activity: Intermediate Level		1-3	** MUSC 299	Special Topics
	1	BIOL 102	Introduction to Aquarium Keeping		1	HPER 204	Dance Skills/Techniques		2	NURS 100	Nurse Assistant Training
	1	BIOL 108	Beginning Birding		1	HPER 210	First Aid, CPR and AED		2	PLA 201	Prior Learning Assessment: Portfolio
	3/1	BIOL 125	Introduction to Ecology/Lab		1	HPER 212	Introduction to Self Defense		2	PSYC 105	Relationships and Self Esteem
	3/1	BIOL 126	Human Biology/Lab		1/1	HPER 250/251	Varsity Athletics		3	PSYC 207	Introduction to Sports and
	3	BCT 216	Sustainable Building I		1-3	** HPER 299	Special Topics				Performance Psychology
	3	CARP 112	Intro to the Green Environment		1-4	HUMS 211	Integrated Cultural Excursion		3	THEA 161	Acting I
	3/1	CHEM 114	Chemistry in Art/Lab		2	HUMS 212	Integrated Cultural Enrichment		3/3	THEA 167/267	Dance-Theatre Movement I & II
	3	CJ 235	Field Experience and Internship		2	MS 101	Foundations of Leadership		1	THEA 201	Theatre Practicum
	3	COMM 200	Introduction to Media Writing		2	MS 102	Basic Leadership		3	THEA 247	Stage Makeup
	3	COMM 201	Interpretive and Opinion Writing		2	MS 110	Military Physical Fitness		1-3	THEA 255	One Act Play Production
	3	COMM 222	Voice and Diction		1	MUSC 117	Concert Choir		3	THEA 270	Stagecraft
	3	COMM 240	Introduction to News Photography		1	MUSC 118	Chamber Choir		1	XXX 195/295	Service Learning (prefix for Service
	3	COMM 242	Advanced News Photography		1	MUSC 121	String Ensemble				Learning is discipline specific)
	3	COMM 244	Reporting and Feature Writing		1/1	MUSC 130/131	Class Voice				

Electives Completed _____ Needed _____

Completed_____ **Needed**_____

(Minimum of 22 Credits) Courses related to the major course of study

[illegible]

Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC) are pre-college courses that indicate the need for college preparation work before enrollment in college level courses. These courses will not fulfill general education requirements, institutional credit requirements and cannot be included in the semester hours required for an Associate in Science degree.

Gr.	Cr.		Gr.	Cr.	
_____	2	ASC 082 Effective Reading	_____	2	ASC 94 College Writing Prep I
_____	3	ASC 087 College Writing Prep	_____	2	ASC 95 College Writing Prep II
_____	1	ASC 088 Composition Lab	_____	2	ASC 96 College Writing Prep III
_____	2	ASC 91 Algebra Prep I	_____	3/1	ASC 098 Basic Biology/Lab
_____	2	ASC 92 Algebra Prep II			
_____	2	ASC 93 Algebra Prep III			

Degree Checklist

Credits

- _____ Earned a minimum of 3 credits in ENGL 110
- _____ Earned a minimum of 3 credits in ENGL 120 or ENGL 125
- _____ Earned a minimum of 3 credits in COMM 110
- _____ Earned a minimum of 6 credits in Arts & Humanities
- _____ Earned a minimum of 6 credits in Social & Behavioral Sciences
- _____ Earned a minimum of 15 credits in Math, Science & Technology
- _____ Earned a minimum of 2 credits of Enrichment
- _____ Earned a minimum of 22 credits of Electives

☐ Earned a minimum of 60 credits

-Academic Skills Courses (ASC) do not count toward graduation

- ☐ Earned at least 15 semester hours of institutional credit from BSC
- ☐ Minimum of 2.00 institutional GPA (BSC only)
- ☐ Minimum of 2.00 cumulative GPA (BSC + Transfer)
- ☐ Earned a minimum of 3 credits from a course designated as Diversity
- ☐ Cleared all college obligations
- ☐ Declared program of study is degree seeking
- ☐ Filed an Application for Degree in the Academic Records Office

Advisor: _____

Office: _____

Phone: _____

Email: _____