

**ARTICULATION AGREEMENT**  
**BETWEEN**  
**WAYNE STATE COLLEGE**  
**AND**  
**SOUTH DAKOTA STATE UNIVERSITY**

**COPY**

This articulation agreement between Wayne State College, hereinafter referred to as WSC, and the South Dakota State University, hereinafter referred to as SDSU, is made for the purpose of establishing an authorized curriculum for students at WSC who wish to transfer to selected engineering degree programs at SDSU.

All references to credit hours in this document shall refer to equivalent SDSU semester credits.

**Structure of SDSU degree programs:** Students pursuing degrees at SDSU are required to complete specific course requirements in order to develop the competencies and critical thinking skills necessary to continue in their chosen major as a junior. The competencies are recommended by the SDSU faculty and include a 30 credit set of general education courses as well as successful completion of the South Dakota Board of Regents proficiency exam, currently the CAAP. Students must develop the required competencies prior to enrolling in junior or senior year courses in their major discipline.

**WSC students transferring to SDSU:** This agreement establishes approved curricula for WSC students transferring to SDSU to pursue degrees in the engineering programs articulated in the fields of Agricultural and Biosystems Engineering, Civil Engineering, Computer Science, Electrical Engineering, Engineering Physics, Mathematics, Mechanical Engineering, Physics, and Software Engineering. These programs are designed to be completed in four to five years of full time study, with students being at WSC for the first 2 years and at SDSU for the last 2 - 3 years. The curricula as contained in this agreement will satisfy the development of the required departmental competencies. WSC students will have to successfully complete the South Dakota Board of Regents proficiency exam in their first semester on the SDSU campus.

WSC students contemplating eventual transfer to SDSU should apply for admission to SDSU by contacting: South Dakota State University, Admissions Office Box 2201, Brookings, SD 57007, Phone: (605) 688-4121 or 1-800-952-3541, Fax: (605) 688-6891, or email: [SDSU\\_Admissions@sdstate.edu](mailto:SDSU_Admissions@sdstate.edu). Students applying for admission in a future semester will be assigned a SDSU mentor. WSC students who successfully complete the designated WSC courses and are in contact with their SDSU mentor can expect that the courses will substitute for SDSU degree requirements as indicated in this agreement, providing the students continue to make progress toward a SDSU degree. Designated WSC courses receiving a grade of C or better will transfer to SDSU as the comparable courses (SDSU does not use the +/- for grades so a C<sup>-</sup> is acceptable). Students who significantly interrupt their education plan with semesters when they are not taking

courses toward a SDSU degree may find that the SDSU curricula have changed, and this change could affect the applicability of previously taken courses to the new SDSU degree requirements.

**Acceptance of WSC credits for transfer to SDSU:** When questions arise as to the transferability of a particular course or courses the matter will be referred to the academic vice president of each institution. WSC will make every reasonable effort to provide SDSU with supporting documentation to substantiate the academic level, discipline area, and type of course or courses in question. The issue will be negotiated in good faith by both parties. The SDSU Vice-President for Academic Affairs will make the final decision on transferability of courses.

The course sequences on the following pages list the approved curricula for students pursuing degrees from WSC and SDSU via this agreement. The courses listed for semesters 1-4 are WSC courses. The equivalent SDSU course number is given in parentheses. Courses listed for the remaining semesters are SDSU courses.

Suggested Program of Study for  
Agricultural and Biosystems Engineering Degree at SDSU

Course # (WSC)	Semester I	Credits	SDSU #
PHY 115	Professionalism in Science	2	GE 101
MAT 140	Calculus I	5	MATH 123
CHE 106	General Chemistry I (Includes Lab)	4	CHEM 112
ENG 102	Composition Skills I	3	ENGL 101
PED 103	Lifestyle Assessment (PE)	2	WEL 100
	Humanities/Social Science Elective	3	
	<b>Total</b>	<b>19</b>	
	<b>Semester II</b>	<b>Credits</b>	
MAT 240	Calculus II	5	MATH 125
PHY 301	University Physics I	4	PHYS 211
PHY 321	and Laboratory	1	PHYS 212
PED 203	Lifestyle Management (PE)	1	GS 143
ENG 200	Expository Writing	3	ENGL 201
	or		
ENG 2070	Technical Communication*	3	ENGL 379
CHE 107	General Chemistry II (Includes Lab)	4	CHEM 114
	or		
CEH 208	Intro to Organic Chem (Includes Lab)	4	CHEM 108
	<b>Total</b>	<b>18</b>	
	<b>Semester III</b>	<b>Credits</b>	
MAT 250	Differential Equations	3	MATH 321
PHY 302	University Physics II	4	PHYS 213
PHY 322	and Laboratory	1	PHYS 214
CSC 150	Programming Fundamentals I	3	CSC 150
PHY 214	Applied Statics	3	EM 214
	Humanities/Social Science Elective	3	
	<b>Total</b>	<b>17</b>	
	<b>Semester IV</b>	<b>Credits</b>	
MAT 340	Calculus III	4	MATH 225
PHY 215	Applied Dynamics	3	EM 215
PHY 326	Electronics	3	EE 300
CNA 311	Principles of Human Communication	3	SpCm 101
	Humanities/Social Science Elective	3	
	<b>Total</b>	<b>16</b>	
	<b>Program Total</b>	<b>70</b>	

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\* Course offered by Northeast Community College, Norfolk, NE

Suggested Program of Study for  
Civil Engineering Degree at SDSU

Course # (WSC)	Semester I	Credits
PHY 115	Professionalism in Science	2
MAT 140	Calculus I	5
CHE 106	General Chemistry I (Includes Lab)	4
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>19</b>
	 <b>Semester II</b>	 <b>Credits</b>
MAT 240	Calculus II	5
PHY 301	University Physics I	4
PHY 321	and Laboratory	1
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication	3
CHE 107	General Chemistry II (Includes Lab)	4
	or	
CEH 208	Intro to Organic Chem (Includes Lab)	4
	<b>Total</b>	<b>18</b>
	 <b>Semester III</b>	 <b>Credits</b>
MAT 250	Differential Equations	3
PHY 302	University Physics II	4
PHY 322	and Laboratory	1
CSC 150	Programming Fundamentals I	3
PHY 214	Applied Statics	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>17</b>
	 <b>Semester IV</b>	 <b>Credits</b>
MAT 340	Calculus III	4
PHY 215	Applied Dynamics	3
PHY 326	Electronics (Elective)	3
CNA 311	Principles of Human Communication	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>16</b>
	 <b>Program Total</b>	 <b>70</b>

Suggested Program of Study for  
Computer Science Degree at SDSU

Course # (WSC)	Semester I	Credits
PHY 115	Professionalism in Science	2
CSC 150	Programming Fundamentals I	3
MAT 140	Calculus I	5
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>18</b>
	<b>Semester II</b>	<b>Credits</b>
CSC 160	Programming Fundamentals II	3
MAT 240	Calculus II	5
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication*	3
	Natural Science Elective	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>18</b>
	<b>Semester III</b>	<b>Credits</b>
CSC 310	Data Structures	3
CSC 340	Modern Programming Methods	3
MAT 305	Discrete Mathematics	3
	Natural Science Elective	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>15</b>
	<b>Semester IV</b>	<b>Credits</b>
CSC 320	Computer Organization	3
CSC 380	Advanced Operating Systems	3
MAT 180	Applied Probability & Statistics	3
CNA 311	Principles of Human Communication	3
	Natural Science Elective	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>18</b>
	<b>Program Total</b>	<b>69</b>

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\* Course offered by Northeast Community College, Norfolk, NE

Suggested Program of Study for  
Electrical Engineering Degree at SDSU

Course # (WSC)	Semester I	Credits
PHY 115	Professionalism in Science	2
MAT 140	Calculus I	5
CHE 106	General Chemistry I(Includes Lab)	4
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>19</b>
	<b>Semester II</b>	<b>Credits</b>
MAT 240	Calculus II	5
PHY 301	University Physics I	4
PHY 321	and Laboratory	1
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication*	3
CHE 107	General Chemistry II(Includes Lab)	4
	<b>Total</b>	<b>18</b>
	<b>Semester III</b>	<b>Credits</b>
MAT 250	Differential Equations	3
PHY 302	University Physics II	4
PHY 322	and Laboratory	1
CSC 150	Programming Fundamentals I	3
PHY 214	Applied Statics	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>17</b>
	<b>Semester IV</b>	<b>Credits</b>
MAT 340	Calculus III	4
PHY 215	Applied Dynamics	3
CNA 311	Principles of Human Communication	3
	Humanities/Social Science Elective	3
	Elective	3
	<b>Total</b>	<b>16</b>
	<b>Program Total</b>	<b>70</b>

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\* Course offered by Northeast Community College, Norfolk, NE

Suggested Program of Study for  
Engineering Physics Degree at SDSU

Course # (WSC)	Semester I	Credits
PHY 115	Professionalism in Science	2
MAT 140	Calculus I	5
CHE 106	General Chemistry I(Includes Lab)	4
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>19</b>
	 <b>Semester II</b>	 <b>Credits</b>
MAT 240	Calculus II	5
PHY 301	University Physics I	4
PHY 321	and Laboratory	1
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication*	3
CHE 107	General Chemistry II (Includes Lab)	4
	<b>Total</b>	<b>18</b>
	 <b>Semester III</b>	 <b>Credits</b>
MAT 250	Differential Equations	3
PHY 302	University Physics II	4
PHY 322	and Laboratory	1
CSC 150	Programming Fundamentals I	3
PHY 214	Applied Statics	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>17</b>
	 <b>Semester IV</b>	 <b>Credits</b>
MAT 340	Calculus III	4
PHY 215	Applied Dynamics	3
PHY 326	Electronics	3
CNA 311	Principles of Human Communication	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>16</b>
	 <b>Program Total</b>	 <b>70</b>

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\* Course offered by Northeast Community College, Norfolk, NE

Suggested Program of Study for  
Mathematics Degree at SDSU

Course # (WSC)	Semester I	Credits
CSC 150	Programming Fundamentals I	3
MAT 140	Calculus I	5
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>16</b>
	<b>Semester II</b>	<b>Credits</b>
MAT 240	Calculus II	5
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication*	3
	Natural Science, Biology Elective	3
	Humanities/Arts Elective	3
	Human Community Elective	3
	<b>Total</b>	<b>18</b>
	<b>Semester III</b>	<b>Credits</b>
PHY 301	University Physics I	4
PHY 321	and Laboratory	1
MAT 340	Calculus III	4
	Biology Elective	3
	Humanities/Arts/Social Science Elective	6
	<b>Total</b>	<b>18</b>
	<b>Semester IV</b>	<b>Credits</b>
CHE 106	General Chemistry I(Includes Lab)	4
PHY 302	University Physics II	4
PHY 322	and Laboratory	1
CNA 311	Principles of Human Communication	3
	Human Spirit Elective	2
	Mathematics Elective	3
	<b>Total</b>	<b>17</b>
	<b>Program Total</b>	<b>69</b>

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\* Course offered by Northeast Community College, Norfolk, NE

Suggested Program of Study for  
Mechanical Engineering Degree at SDSU

Course # (WSC)	Semester I	Credits
PHY 115	Professionalism in Science	2
MAT 140	Calculus I	5
CHE 106	General Chemistry I(Includes Lab)	4
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>19</b>
	<b>Semester II</b>	<b>Credits</b>
MAT 240	Calculus II	5
PHY 301	University Physics I	4
PHY 321	and Laboratory	1
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication*	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>17</b>
	<b>Semester III</b>	<b>Credits</b>
MAT 250	Differential Equations	3
PHY 302	University Physics II	4
PHY 322	and Laboratory	1
CSC 150	Programming Fundamentals I	3
PHY 214	Applied Statics	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>17</b>
	<b>Semester IV</b>	<b>Credits</b>
MAT 340	Calculus III	4
PHY 215	Applied Dynamics	3
PHY 326	Electronics	3
CNA 311	Principles of Human Communication	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>16</b>
	<b>Program Total</b>	<b>69</b>

\* Course offered by Northeast Community College, Norfolk, NE

Suggested Program of Study for  
Physics Degree at SDSU

Course # (WSC)	Semester I	Credits
PHY 115	Professionalism in Science	2
MAT 140	Calculus I	5
CHE 106	General Chemistry I (Includes Lab)	4
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>19</b>
	<b>Semester II</b>	<b>Credits</b>
MAT 240	Calculus II	5
PHY 301,321	University Physics I, Laboratory I	4, 1
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication*	3
CHE 107	General Chemistry II (Includes Lab)	4
	<b>Total</b>	<b>18</b>
	<b>Semester III</b>	<b>Credits</b>
MAT 250	Differential Equations	3
PHY 302,322	University Physics II, Laboratory II	4, 1
CSC 150	Programming Fundamentals I	3
PHY 214	Applied Statics	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>17</b>
	<b>Semester IV</b>	<b>Credits</b>
MAT 340	Calculus III	4
PHY 215	Applied Dynamics	3
PHY 326	Electronics	3
CNA 311	Principles of Human Communication	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>16</b>
	<b>Program Total</b>	<b>70, 68</b>

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\* Course offered by Northeast Community College, Norfolk, NE

Suggested Program of Study for  
Software Engineering Degree at SDSU

Course # (WSC)	Semester I	Credits
PHY 115	Professionalism in Science	2
CSC 150	Programming Fundamentals I	3
MAT 140	Calculus I	5
ENG 102	Composition Skills I	3
PED 103	Lifestyle Assessment (PE)	2
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>18</b>
	<b>Semester II</b>	<b>Credits</b>
CSC 160	Programming Fundamentals II	3
MAT 240	Calculus II	5
PED 203	Lifestyle Management (PE)	1
ENG 200	Expository Writing	3
	or	
ENG 2070	Technical Communication*	3
	Natural Science Elective	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>18</b>
	<b>Semester III</b>	<b>Credits</b>
CSC 310	Data Structures	3
CSC 340	Modern Programming Methods	3
MAT 305	Discrete Mathematics	3
MAT 305	Linear Algebra	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>15</b>
	<b>Semester IV</b>	<b>Credits</b>
CSC 320	Computer Organization	3
CSC 380	Advanced Operating Systems	3
MAT 410	Probability & Statistics	3
CNA 311	Principles of Human Communication	3
	Natural Science Elective	3
	Humanities/Social Science Elective	3
	<b>Total</b>	<b>18</b>
	<b>Program Total</b>	<b>69</b>

\* Course offered by Northeast Community College, Norfolk, NE