INTERDISCIPLINARY SCIENCES DEGREE PROGRAM WORKSHEET

Student Name: **Advisor:**

Target Graduation Date: **Specialization: Science, Technology, and Society**[1]

Copies of this degree program worksheet are to be maintained by both the student and the advisor. It is to be submitted with the student's Letter of Intent no later than one year before intended graduation. See deadlines for submission of Letter of Intent listed on page 5 .

All IS specializations require a minimum of **60 semester hours** of math, computer science, and the natural sciences, which includes a minimum of 12 hours math/computer science and a minimum of 30 hours natural sciences, 12 of which must be at the upper division.

[1] *Science, Technology, and Society (STS) students are expected to choose a science concentration. A minor in another field (e.g., atmospheric science, biology, computer science, geology, mathematics, occupational safety, or physics) is highly encouraged. Consult the SDSM&T catalog to determine additional courses required for the minors.*

I. MATH/COMPUTER SCIENCE (minimum of 12 sem. hrs., min. of 3 in Math and min. of 3 in CSC.) *Check General Ed. list of courses.* No duplicate credit is given for MATH 115 and MATH 120.

A. Mathematics (minimum of 3 sem. hrs.) MATH 102 & MATH 120 are not required but may need to be taken based on placement scores. MATH 123 is required for all IS specializations.

Course	Title	Credits	Semester Completed	Transfer/Comments	Use X for courses taken for Gen Ed
MATH 102	College Algebra (3)				
MATH 120	Trigonometry (3)				
MATH 123	*Calculus I (4)*				
	Lower-division Math Total	0	(3 sem. hrs. minimum)		

Course	Title	Credits	Semester Completed	Transfer/Comments	Use X for courses taken for Gen Ed
	Upper-division Math Total	0			
	Math Subtotal	0	(3 sem. hrs. minimum)		

B. Computer Science (minimum of 3 sem. hrs. required for all IS specializations)

Course	Title	Credits	Semester Completed	Transfer/Comments	Use X for courses taken for Gen Ed
	Comp. Sci. Subtotal	0	(3 sem. hrs. minimum)		
	Math/Comp. Sci. Total	0	(12 sem. hrs. minimum)		

Courses in italics are required for the Science, Technology, and Society Specialization

II. NATURAL SCIENCES (minimum of 30 sem. hrs., 12 of which must be upper division)
Any courses with ATM/Meteorology, Biology, Chemistry, Geology, Paleontology, or Physics prefix apply. There must be at least 3 sem. hrs. in Biology, 3 sem. hrs. in Chemistry (CHEM 112 or higher), and a 6-sem. hrs. sequence in one of the sciences including at least 1 sem. hr. of laboratory. NOTE: CHEM 106 and PHYS 111 may be used only for elective credit when CHEM 112 and PHYS 211 are taken to fulfill the Science requirement. ***Check for 6 sem hrs. of General Education approved courses.***

Lower-division Sciences (Courses numbered 100-299)

Course	Title	Credits	Semester Completed	Transfer/Comments	Use X for courses taken for Gen Ed
	Lower-division Sciences Total	0			

Upper-division Sciences (minimum of 12 sem. hrs.)
(Courses numbered 300 and above)

Course	Title	Credits	Semester Completed	Transfer/Comments
	Upper-division Sciences Total	0	(12 sem. hrs. minimum)	

Natural Sciences Total **0** (30 sem. hrs. minimum)

III. IS CORE COURSES (Required for graduation)

Course	Title	Credits	Semester Completed	Transfer/Comments
IS 110	*Explorations (2)*			
IS 201	*Intro to Science, Tech, & Society (3)*			
IS 401	*Writing & Research in the Inter. Sci. (3)*			
IS 498	*Undergraduate Research/Scholarship(3)*			
	IS Core Courses Total	**0**	(11 sem. hrs. required)	

IV. PHYSICAL EDUCATION (2 sem. hrs. required) - Any approved PE course will fulfill. Examples below.

Course	Title	Credits	Semester Completed	Transfer/Comments
MUEN 101	Choral Ensembles (1 to 2)			
MUEN 122	Concert Band (1)			
PE 100				
PE 100				
PE 103	Nutrition for Everyday Living			
PE 105	Wellness and Physical Fitness			
PE 113	Varsity Sport			
PE 118	Beginning & Intermediate Swimming			
	Physical Education Total	0	(2 sem. hrs. minimum)	

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V. WRITING & COMMUNICATION (All three required, 9 sem. hrs.)

Course	Title	Credits	Semester Completed	Transfer/Comments
ENGL 101	*Composition I (3)*			
ENGL 279	*Technical Communications I (3)*			
ENGL 289	*Technical Communications II (3)*			
	Writing & Communication Total	0	(9 sem. hrs. required)	

VI. HUMANITIES & SOCIAL SCIENCES (24 sem. hrs. required)

A. Humanities (minimum 12 sem. hrs.) ARTH, ENGL,FREN,GER,HUM,MUS,MUEN,MUAP,PHIL,SPAN

NOTE: There must be 6 sem. hrs. from approved General Ed list, and at least 6 sem. hrs. of Upper Division. Not all courses taught by Humanities faculty count for Humanities credit--check catalog. Beginning Fall 1999, HIST 121 & 122 will count only as Humanities credits.

Lower-division Humanities (minimum of 6 sem. hrs.)

Course	Title	Credits	Semester Completed	Transfer/Comments	Use X for courses taken for Gen Ed
	Lower-division Humanities Subtotal	0	(6 sem. hrs. minimum)		

Upper-division Humanities (minimum of 6 sem. hrs.)

Course	Title	Credits	Semester Completed	Transfer/Comments
	Upper-division Humanities Subtotal	0	(6 sem. hrs. minimum)	
	Humanities Total	**0**	(12 sem. hrs. minimum)	

B. Social Sciences (minimum 12 sem. hrs.) ANTH, ECON, GEOG, HIST, LAW, POLS, PSYC, SOC

NOTE: There must be 6 sem. hrs. from approved General Ed list, and at least 6 sem. hrs. of Upper Division. Not all courses taught by Social Sciences faculty count for Social Sciences credit--check catalog. Beginning Fall 1999, HIST 121 & 122 will count only as Humanities credits.

Lower-division Social Sciences (minimum of 6 sem. hrs.)

Course	Title	Credits	Semester Completed	Transfer/Comments	Use X for courses taken for Gen Ed
	Lower-division Social Sciences Subtotal	0	(6 sem. hrs. minimum)		

Upper-division Social Sciences (minimum of 6 sem. hrs.)

Course	Title	Credits	Semester Completed	Transfer/Comments
	Upper-division Social Sciences Subtotal	0	(6 sem. hrs. minimum)	

Social Sciences Total	**0**	(12 sem. hrs. minimum)
Humanities and Social Sciences Total	**0**	(24 sem. hrs. minimum)

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VII. PROGRAM-APPROVED ELECTIVES

A. 100-299 Elective courses

Course	Title	Credits	Semester Completed	Transfer/Comments
	Lower-division Electives Subtotal	0		

B. 300 and above Elective courses

Course	Title	Credits	Semester Completed	Transfer/Comments
	Upper-division Electives Subtotal	0		

Program-approved Electives Total 0

VIII. UPPER-DIVISION COURSE TOTAL

300-499 Sciences	0	(12 sem. hrs. min.)
IS 401	0	(3 sem. hrs.)
IS 498	0	(3 sem. hrs.)
300-499 Humanities	0	(6 sem. hrs. min.)
300-499 Social Sciences	0	(6 sem. hrs. min.)
300-499 Electives	0	
Total Upper-division Credits	**0**	(36 sem. hrs. minimum)

IX. GENERAL EDUCATION REQUIREMENTS CHECK LIST

Check the approved list of general education courses. These are the only courses which count. These are to be completed in the first 2 years. **ENTER ONLY THE MINIMUM NUMBER OF CREDITS REQUIRED**.

Goal 1 and 2	ENGL 101	0	***List specific courses on lines below.***
	ENGL 279	0	***Use * to indicate cultural diversity***
	ENGL 289	0	***course (minimum six hours required).***
Goal 3 Social Sciences -- 6 sem. hrs. in 2 disciplines			
Goal 4 Humanities -- 6 sem. hrs. in 2 disciplines			
Goal 5 Mathematics -- 3 sem. hrs.			
Goal 6 Sciences -- 6 sem. hrs. including 1 laboratory			
Goal 7 Cultural Diversity -- 6 sem. hrs.		***	***Do not include in total.
(May include courses taken for Goals 3 & 4. Check General Ed. approved courses.)			
	General Ed. Total	0	(30 sem. hrs. minimum)

Courses in italics are required for the Science, Technology, and Society Specialization

X. DEGREE CHECK SUMMARY FOR Science, Technology, and Society

A. Math/Computer Science	
1. Lower-division Math (3 sem. hrs. minimum)	0
2. Upper-division Math	0
3. Computer Science (3 sem. hrs. minimum)	0
Math/Comp. Sci. (12 sem. hrs. minimum)	0
B. Natural Sciences (check for 6 hr. sequence)	
1. Lower-division sciences	0
2. Upper-division sciences (12 sem. hrs. min.)	0
Natural Sciences (30 sem. hrs. minimum)	0
Math/Comp. Sci. & Natural Sciences (60 sem. hrs. min.)	0
C. IS Core Courses	
1. IS 110 (2)	0
2. IS 201 (3)	0
3. IS 401 (3)	0
4. IS 498 (3)	0
IS Core Courses (11 sem. hrs. minimum)	0
D. Physical Education (2 sem. hrs. minimum)	0
E. Writing and Communication (9 sem. hrs. minimum)	0
F. Humanities and Social Sciences	
1. Humanities (12 sem. hrs. min. including 6 U.D.)	0
2. Social Sciences (12 sem. hrs. min. incl. 6 U.D.)	0
Humanities & Social Sciences (24 sem. hrs. min.)	0
G. Program-approved Electives	0
Total Credits Required for Graduation	**0** **128 minimum**

Use X to indicate minimum requirement met.

Biology (3 cr.)	
Chemistry (3 cr.)	
Science (6 cr. hr. sequence)	
Lab (1 cr.)	

XI. ADDITIONAL REQUIREMENTS

The completed IS Degree Program Worksheet and the Letter of Intent must be submitted to the IS Office no later than one year before intended date of graduation. This plan of study consists of the reasons for pursuing the IS degree, the specialization chosen, and the reasons for selecting that specialization. This must be done in consultation with assigned IS advisor. Advisor's signature is required.

Deadlines for submission of IS Degree Program Worksheet and Letter of Intent:

May graduation--April 30 of preceding year; August graduation--July 30 of preceding year; December graduation--November 30 of preceding year.

Recommended courses for Environmental Science/Science Policy Focus :

ATM 301	Introduction to Atmospheric Science		
ATM 402	Global Environmental Change		
BIOL151/151L	General Biology I and Lab	CHEM 328/328L	Organic Chemistry II and Lab
BIOL 153/153L	General Biology II and Lab	CHEM 482/482L	Environmental Chemistry
BIOL 311	Principles of Ecology	GEOL 201/201L	Physical Geology and Lab
CHEM 112/112L	General Chemistry I and Lab	GEOL 321	Search for Our Past
CHEM 114/114L	General Chemistry II and Lab	GEOL 351	Earth Resources and the Environment
CHEM 316	Fundamentals of Organic Chemistry or	PHYS 111/111L	Introduction to Physics I and Lab
CHEM 326/326L	Organic Chemistry I and Lab		

Recommended Policy Courses at SDSM&T

HUM 375	Computers in Society	BADM 350	Legal Environment of Business
HUM 300	Materials and Civilization	ECON 201	Principles of Micro Economics
POLS 350	International Relations	ECON 202	Principles of Macro Economics
POLS 407	Environmental Law and Policy (Highly recommended)	IS 392	Topics in IS: Intellectual Property
LAW 457	Legal System		

Policy courses from USD, SDSU, and BHSU may also be acceptable.

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