| | INT | ERDISCIPLINARY SCIENC | ES D | EGREE P | ROGRAM WORKSH | EET | | |
|-------------------|----------------------|--|--|----------------|--|------------------------------|--|--|
| | dent Name: | | | Advisor: | | 0 | | |
| arget Grad | uation Date: | | Specialization: Science, Technology, and Society Pre-Nanoscience | | | | | |
| Copies of t | hic dograe n | rogram worksheet are to be m | ointoir | | | advisor It is to be | | |
| • | | _ | | - | | | | |
| | | ent's Letter of Intent no later th | ian on | e year bei | ore intended graduatio | n. <u>See deadlines for</u> | | |
| <u>submission</u> | or Letter of | Intent listed on page 5. | | | | | | |
| \ | :-!:t: | iii | 40 10.0 | | .46 | | | |
| - | | quire a minimum of 60 semes | | | | | | |
| | | es a minimum of 12 hours math | n/com | puter scie | nce and a minimum of | 30 nours natural | | |
| sciences, 1 | 2 of which h | nust be at the upper division. | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| I MATILIC | OMDUTED SO | CIENCE (minimum of 12 sem. hrs., m | in of 2 | in Math and | lmin of 2 in CCC) Charles | Consul Ed list of sources | | |
| | | MATH 115 and MATH 120. | III. 01 3 | iii Matii and | i iiiii. 01 3 iii CSC.) Check | General Ea. iist of courses. | | |
| to duplicate c | | tics (minimum of 3 sem. hrs.) MATH | I 102 & | MATH 120 | are not required but may no | eed to be taken based on | | |
| | | t scores. MATH 123 is required for a | | | | to be taken based on | | |
| | | | | Semester | | Use X for courses taken | | |
| | Course | Title | Credits | Completed | Transfer/Comments | for Gen Ed | | |
| | MATH 102 | College Algebra (3) | | | | | | |
| | MATH 120 MATH 123 | Trigonometry (3) Calculus I (4) | | | | | | |
| | MATH 125 MATH 125 | Calculus II (4) | | | | | | |
| | MATH 225 | Calculus II (4) | | | | | | |
| | | , , | | | | | | |
| | | | | | | | | |
| | | | 0 | (2 1 | <u> </u> | | | |
| | | Lower-division Math Total | 0 | (3 sem. hrs. 1 | minimum) | | | |
| | | | 1 | Semester | ı | Use X for courses taken | | |
| | Course | Title | Credits | | Transfer/Comments | for Gen Ed | | |
| | MATH 321 | Differential Equations (4) | | | | | | |
| | | Tana a C | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | Harrier Made Tadal | 0 | | | | | |
| | | Upper-division Math Total Math Subtotal | | (3 sem. hrs. 1 | minimum) | | | |
| | | Matii Subtotai | U | (3 sem. ms. | iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | | | |
| | | | | | | | | |
| | B. Computer | Science (minimum of 3 sem. hrs. req | uired fo | or all IS spec | ializations) | | | |
| | • | | | Semester | ĺ | Use X for courses taken | | |
| | Course | Title | Credits | Completed | Transfer/Comments | for Gen Ed | | |
| | CSC 150/150L | Computer Science I (3) | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | <u> </u> | | | | | | |
| | | | | | | | | |
| | | Comp. Sci. Subtotal | 0 | (3 sem. hrs. 1 | minimum) | | | |
| | | M 4 / G | 0 | (10 1 | | | | |
| | 1 | Math/Comp. Sci. Total | · 0 | 112 sem. hrs. | . minimum) | | | |

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)

| G | TOTAL . | | Semester | T 0 1G | Use X for courses taken |
|---------------|------------------------------------|---------|-----------|-------------------|-------------------------|
| Course | Title | Credits | Completed | Transfer/Comments | for Gen Ed |
| BIOL 151/151L | General Biology I and Lab (3/1) | | | | |
| BIOL 153/153L | General Biology II and Lab (3/1) | | | | |
| CHEM 112/112L | General Chemistry I and Lab (3/1) | | | | |
| CHEM 114/114L | General Chemistry II and Lab (3/1) | | | | |
| PHYS 211 | University Physics I (3) | } | | | P |
| PHYS 213/213L | University Physic II and Lab (4) | 1 | | | 9 |
| | | | | | |
| | | | | | |
| | | | | | |
| | Lower-division Sciences Total | 0 | | | |

Upper-division Sciences (minimum of 12 sem. hrs.)

(Courses numbered 300 and above)

| Course | Title | | Semester Completed | Transfer/Comments |
|----------------|---|-----------|-----------------------|--------------------------------------|
| | | Credits | Completed | Transier/Comments |
| VANO 401 | Intro to Nanoscience & Technology(3) | | | |
| | | | | |
| And other biol | ogy, chemistry, and nano courses as determine | ed in con | sultation with t | he nano faculty and your IS advisor. |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| | Upper-division Sciences Total | | (12 sem. hrs | |

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

III. IS CORE COURSES (Required for graduation)

| | | | Semester | |
|--------|---|---------|---------------|-------------------|
| Course | Title | Credits | 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.

| | | | Semester | |
|----------|-----------------------------------|---------|-----------|-------------------|
| Course | Title | Credits | 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 | | | |
| | DI 1 151 41 75 4 1 | 0 | (0 1 | • • • • |

Physical Education Total 0 (2 sem. hrs. minimum)

| 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. re | equired) |

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 | | Semester Completed | Transfer/Comments | Use X for courses taken for Gen Ed |
|------------|--|---------|-----------------------|-------------------|---------------------------------------|
| | | | | | |
| | | | | | |
| | Lower-division Humanities Subtotal | 0 | (6 sem. hrs. | minimum) | I |
| Upper-divi | sion Humanities (minimum of 6 sem. h | rs.) | _ | | |
| | | | | | |
| Course | Title | Credits | Semester Completed | Transfer/Comments | |
| Course | Title | Credits | | Transfer/Comments | |
| Course | Title | Credits | | Transfer/Comments | |
| Course | Title Upper-division Humanities Subtotal | | | | |

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 |
|-------------|--|----------|-----------------------|-------------------|---------------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| Lo | ower-division Social Sciences Subtotal | 0 | (6 sem. hrs. 1 | minimum) | |
| Upper-divis | ion Social Sciences (minimum of 6 sen | ı. hrs.) | | | |
| | | | Semester | | |
| Course | Title | Credits | Completed | Transfer/Comments | |
| | | | | | |
| | | | | | |
| | | | | | |
| Ul | pper-division Social Sciences Subtotal | 0 | (6 sem. hrs. 1 | minimum) | |
| | Social Sciences Total | 0 | (12 sem. hrs. | minimum) | |
| Hu | manities and Social Sciences Total | 0 | (24 sem. hrs. | minimum) | |

VII. PROGRAM-APPROVED ELECTIVES >>>Students are encouraged to consult the admissions requirements of medical school programs to determine which elective courses will be most useful.

Semester

A. 100-299 Elective courses

| | Course | Titic | Cituits | Completed | Tansier/Comments |
|------------|--------------------|--|----------|---------------|--|
| | EM 214 | Statics (3) | | | Pre-req is Math 125 |
| | MET 232 | Properties of Materials (3) | | | Pre-req is Math 123 and Phys 111 or Phys 211 |
| | | or appearance of an armonium (2) | | 1 | |
| | | | | † | |
| | | | | + | |
| | | | | <u> </u> | |
| | | Lower-division Electives Subtotal | 0 | | |
| | | | _ | _ | |
| | B. 300 and al | bove Elective courses | | | |
| | | | T | Semester | |
| | Course | Title | Credite | Completed | Transfer/Comments |
| | | | Credits | Completed | |
| | EM 321 | Mechanics of Materials (3) | | | Pre-req is EM 214 |
| | EE 303 | Basic Circuits (3) | | | |
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| | | | | 1 | |
| | | | | 1 | |
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| | | | | | |
| | | | | | |
| | | Upper-division Electives Subtotal | 0 | | |
| | | 11 | | 4 | |
| | | Program-approved Electives Total | 0 |] | |
| VIII IIPPI | R-DIVISION (| COURSE TOTAL | | | |
| VIII. 0111 | 300-499 Scien | | 0 | 1(12 same has | · \ |
| | | nces | 0 | (12 sem. hrs | |
| | IS 301 | | 0 | (3 sem. hrs | |
| | IS 498 | | 0 | (3 sem. hrs | s.) |
| | 300-499 Hum | nanities | 0 | (6 sem. hrs | s. min.) |
| | 300-499 Socia | al Sciences | 0 | (6 sem. hrs | s. min.) |
| | 300-499 Elect | | 0 | | |
| | 300 477 Elect | | | (26 1 | !! |
| | | Total Upper-division Credits | 0 | (36 sem. hrs | s. minimum) |
| | | | | | |
| | | | | | |
| | | | | | |
| V CENED | AI EDUCATIO | ON REQUIREMENTS CHECK LIS | Т | | |
| | | | | | 111 |
| Check | the approved li | ist of general education courses. Th | iese are | the only cou | <u>irses which count</u> . These are to be |
| compl | leted in the first | 2 years. ENTER ONLY THE M | INIMU | M NUMBE | CR OF CREDITS REQUIRED. |
| Т | | | | | |
| | | | | | 7 |
| | 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 | S | | |
| | | 1 | | | |
| | C1 4 H- | | | | |
| | Goal 4 Humai | nities 6 sem. hrs. in 2 disciplines | | | |
| | | | | | |
| | Goal 5 Mathe | matics 3 sem. hrs. | | | |

General Ed. Total

Goal 6 Sciences -- 6 sem. hrs. including 1 laboratory

(May include courses taken for Goals 3 & 4. Check

Goal 7 Cultural Diversity -- 6 sem. hrs.

General Ed. approved courses.)

***Do not include in total.

(30 sem. hrs. minimum)

| X. DEGREE CHECK SUMMARY FOR Pre-Professional Health S | ciencePre-Medicine |
|--|--|
| A.W.1/0 | |
| A. Math/Computer Science | |
| 1. Lower-division Math (3 sem. hrs. minimum) | 0 |
| 2. Upper-division Math | |
| 3. Computer Science (3 sem. hrs. minimum) | |
| Math/Comp. Sci. (12 sem. hrs. minimum) | Use V to in it is to solve in the solve in t |
| B. Natural Sciences (check for 6 hr. sequence) | Use X to indicate minimum |
| Natural Sciences (check for 6 hr. sequence) Lower-division sciences | requirement met. |
| 2. Upper-division sciences (12 sem. hrs. min.) | 0 Biology (3 cr.) 0 Chemistry (3 cr.) |
| Natural Sciences (30 sem. hrs. minimum) | 0 Chemistry (5 cr.) 0 Science (6 cr. hr. sequence) |
| Natural Sciences (50 Seni. Ilis. Illinimum) | Lab (1 cr.) |
| 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 |
| 15 COLO COM1015 (11 0 0111 1110) 111111111111 | |
| 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 |
| | |
| XI. ADDITIONAL REQUIREMENTS | et |
| | of Intent must be submitted to the IS Office no later than one year |
| before intended date of graduation. This plan of study consists | |
| , | must be done in consultation with assigned IS advisor. Advisor's |
| signature is required. | |
| <u>Deadlines for submission of IS Degree Program Worksheet and</u> May graduationApril 30 of preceding year; August graduationJuly 30 of preceding year; | nd Letter of Intent: |
| December graduationNovember 30 of preceding year | |
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This form may be found at http://is.sdsmt.edu