

Name (please print): _____
(Last) (First) (Middle)

Student Number: _____

Primary Major: _____ Expected Major Completion Term: _____

Required Courses

_____ UN 4000 Remote Sensing Seminar (1)

Select one of the following two courses:

_____ FW 4540 Remote Sensing of the Environment (3)

_____ GE 4250 Fundamentals of Remote Sensing (3)

Elective Courses (Data Acquisition & Processing)*Select 3-6 credits from the following:*

_____ EE 2150 Intro to Signal Processing (3)

_____ EE 3140 Electromagnetics (3)

_____ EE 4252 Digital Signal Processing (4)

_____ EE 5500 Statistical Signal Processing (3)

_____ EE 5520 Fourier Optics (3)

_____ FW 5560 Digital Image Processing: A Remote
Sensing Perspective (4)_____ GE 4250 Fundamentals of Remote Sensing (3)
(Do not select if selected under Required Courses above).

_____ PH 2230 Electronics for Scientists (4)

_____ PH 3210 Optics (3)

Elective Courses (Data Management)*Select 3-6 credits from the following:*

_____ CE 5661 GIS Applications (3)

_____ CS 2090 Special Topics in CS (3)

_____ CS 3621 Geometric Objects and Processing (3)

_____ CS 4611 Foundations of Computer Graphics (3)

_____ FW 3540 Intro to GIS for Natural Resource
Management (4)

_____ FW 5550 Geographic Information Systems (4)

_____ GE 4160 Introduction to Subsurface GIS (3)

_____ MA 3730 Statistical Methods II (3)

_____ MA 4515 Intro to Partial Diff. Equations (3)

_____ MA 4610 Numerical Linear Algebra (3)

_____ MA 4710 Regression Analysis (3)

_____ MA 5701 Statistical Methods (3)

_____ MA 5741 Multivariate Statistical Methods (3)

_____ MA 5980 Special Topics in Mathematics (3)

Courses listed in this minor have the following prerequisites (shown in parenthesis). Concurrency is illustrated by the letter C: EE3140 (PH2200 and (MA3160 or MA3150)), CE5661 (CE3620), CE5509 (CE4501 or CH3510), CH5509 (CE4501 or CH3510), CE5505 (CE4504 or CE4501), PH2230 (PH2200 or PH2260), MA4515 ((MA3520 or MA3521 or MA3530 or MA3560) and (MA3150 or MA3160)), CE4501 ((CE3501 or CE3503) and CE3502 and CH3500 C), CS3621 ((MA2160 or MA2150) and (MA2330 or MA2320 or MA2321) and CS2141), MA3730 (MA2710 or MA2720 or MA3710), CE3620 (ENG3200 and (MA3710 C or CE3502) C), CS4611 (CS2141), EE2150 ((MA2160 or MA2150) and (CS1121 or CS1131)), MA4710 (MA2720 or MA3710 or MA2710), FW3540 (MA2720 C or MA2710 C or MA3710 C), PH4080 (PH3480), MA5741 ((MA4710 or MA4720) and MA5701), GE4150 ((GE2000 or GE2100) and UN2002), GE4250 (PH2200 and (MA2150 or MA2160)), EE5520 (EE3190), FW5560 (FW4540FW4540), FW5550 (MA2720 or MA2710 or MA3710), EE4252 (EE3160 and EE2150 and EE2150), MA4610 (MA2320 or MA2321 or MA2330), PH3210 (PH2400 and (MA3520 or MA3521 or MA3530 C or MA3560))

Minor in Remote Sensing (continued)

Elective Courses (*Data Analysis and Applications*)

Select 3-6 credits from the following list:

- _____ BL5520 Satellite Limnology (3)
- _____ CE3620 Water Resources Eng (4)
- _____ CE4501 Environ Eng Chem Processes (4)
- _____ CE4504 Air Quality Engineering & Science (3)
- _____ CE5505 Atmospheric Chemistry (3)
- _____ CE/CH5509 Environ. Organic Chemistry (3)
- _____ FW4540 Remote Sensing of the Environment (3)
(Do not select if selected under Required Courses above).
- _____ GE2500 Introduction to Oceanography (3)
- _____ GE2640/PH2640 Atmospheric Observ & Meteor (3)
- _____ GE4150 Natural Hazards (3)
- _____ GE4170 Volcanic Clouds (4)
- _____ GE5150 Advanced Natural Hazards (3)
- _____ GE5160 Remote Sensing of the Earth (3)
- _____ PH5910 Atmospheric Physics (2)
- _____ UN4000 Remote Sensing Seminar (1)
(1 credit of UN4000 may be used in addition to the 1 credit of UN4000 that is required).

Elective Courses (*Independent Study/Senior Research*)

Select 0-3 credits from the following:

- _____ BL4000 Special Problems in Biology (3)
- _____ CE4510 Baccalaureate Thesis (3)
- _____ CH4990 Undergrad. Research in Chemistry (3)
- _____ CS4090 Special Topics in CS (3)
- _____ EE4800 Special Topics in EE (3)
- _____ FW4500 Independent Study (3)
- _____ GE4960 Independent Geol. Eng. Res. Project (3)
- _____ MA4990 Topics in Mathematics (3)
- _____ PH4080 Senior Research I (3)

Information and Guidelines

- Minors will require a minimum of 16 semester credit hours. Of these 16 credit hours, no more than 6 may be 1000 or 2000 level. Minors must include at least 6 credit hours of 3000 level or higher courses which are not required for a student's Major degree except as free electives.
- Undergraduate requirements and special provisions for each Minor are listed and defined by each academic unit offering the Minor. Minors offered in cross-disciplinary areas must originate in a designated department, school, or multidisciplinary program as recognized by the University.
- Students may not take a Minor with the same title as their Major or Major Concentration.
- A minimum cumulative grade point average of 2.0 is required for courses in the Minor.
- It is recommended that students consider Minors as early as possible in their program of study. Students desiring a Minor should indicate their intent by filing a "Change/Addition of Major/Minor" form with the Office of Student Records and Registration no later than the first semester of their junior year.
- Students desiring a Minor must also file the applicable 'Minor Audit Form' with the academic advisor of the department offering the minor two semesters prior to completion of their associated undergraduate degree. The academic advisor will approve and forward the form to Degree Services. Once this Minor Audit Form is on file with Degree Services, any change of intent to pursue the minor must be reported directly to the Degree Services Office, 487-2395. Failure to do so could delay the awarding of the undergraduate degree.
- Any changes to the requirements, e.g. course substitutions, must be indicated and submitted to the Degree Services Office on a "Petition to Alter Degree Requirements" form by the academic advisor in the department offering the minor.

Credits Required = 16

Total Credits _____

Student _____

Date _____

Department Advisor _____

Date _____