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

Student Number: _____________________________________________

Primary Major: _____________________________________________  Expected Major Completion Term: ________________

Required Courses

_____ UN4000 Remote Sensing Seminar (1)

Select one of the following two courses:
_____ FW4540 Remote Sensing of the Environment (3)
_____ GE4250 Fundamentals of Remote Sensing (3)

Elective Courses (Data Management)
Select 3-6 credits from the following:
_____ CS3425 Introduction to Database Systems (3)
_____ CS4611 Foundations of Computer Graphics (3)
_____ FW3540 Intro to GIS for Natural Resource Management (4)
_____ FW5411 Applied Regression Analysis (3)
_____ FW5550 Geographic Information Systems (4)
_____ FW5557 Applied Spatial Statistics (3)
_____ GE4670 Aquatic Remote Sensing (3)
_____ MA2720 Statistical Methods (4)
_____ MA4515 Intro to Partial Diff. Equations (3)
_____ MA4610 Numerical Linear Algebra (3)
_____ MA4710 Regression Analysis (3)
_____ MA5701 Statistical Methods (3)
_____ MA5980 Special Topics in Mathematics (3)

Elective Courses (Data Analysis and Applications)
Select 3-6 credits from the following:
_____ CE 3620 Water Resources Eng (4)
_____ ENVE 4501 Environ Eng Chem Processes (4)
_____ ENVE 4504 Air Quality Engineering & Science (3)
_____ ENVE 5515/ENVE/CH 4515 Atmospheric Chemistry (3)
_____ ENVE/CH 5509 Environ. Organic Chemistry (3)
_____ FW 4540 Remote Sensing of the Environment (3)
_____ GE 2500 Introduction to Oceanography (3)
_____ GE2640/PH2640 Atmospheric Observ & Meteor (3)
_____ GE4150 Natural Hazards (3)
_____ GE5150 Advanced Natural Hazards (3)
_____ PH4640 Intro to Atmospheric Physics (3)
_____ UN4000 Remote Sensing Seminar (1)

1 credit of UN4000 may be used in addition to the 1 credit of UN4000 that is required.
Courses listed in this minor have the following prerequisites (shown in parenthesis). Concurrency is illustrated by the letter C:

**CE3620** ([ENG3200 or ENG3507] and [MA3710 C or ENVE3502 C or CE3710 C])
**CS3425** (CS2311 and CS2321)
**CS4611** (CS1141 and CS2321 and MA2330)
**EE3140** (PH2200 and MA3160 and [EE2110 or EE2112])
**EE4252** (EE3160)
**FW5560** (MA2710 C or MA2720 C or MA3710 C or ENVE3502 C)
**ENVE4501** ([ENVE3501 or ENVE3503] and ENVE 3502 and [ENG3200 or CH3500 or CH3501])
**ENVE4504** (ENVE3501 or ENVE3503)
**ENVE5515** (CH3510 or ENVE4501 or ENVE4504)
**ENVE5509** (ENVE 4501 or CH 3510)
**FW5560** (FW5540)
**GE4150** (GE2000 or GE2100)
**GE4250** (PH2200 and MA2160)
**MA2720** (MA1020 or MA1030)
**MA4515** ([MA3520 or MA3521 or MA3530 or MA3560] and MA3160)
**MA4610** (MA2320 or MA2321 or MA2330)
**MA4710** (MA2710 or MA2720 or MA3710 or MA3715)
**PH2230** (PH2200 or PH2260)
**PH3210** (PH2400 and [MA3520 or MA3521 or MA3530 C or MA3560])
**PH4640** ([PH2200 or PH2260] and [PH1360 or PH2300] and MA3160 and [MA3520 or MA3521 or MA3530 or MA3560])

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

- EE3140 Electromagnetics (3)
- EE4252 Digital Signal Processing (4)
- EE5500 Statistical Signal Processing (3)
- FW5560 Digital Image Processing: A Remote Sensing Perspective (4)
- GE4250 Fundamentals of Remote Sensing (3)

*Do not select if selected under Required Courses*

- PH2230 Electronics for Scientists (4)
- PH3210 Optics (3)

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**Elective Courses (Independent Study/Senior Research)**
Select 0-3 credits from the following:

- BL 4000 Research in Biology (3)
- CH 4990 Undergrad. Research in Chemistry (3)
- CS 4090 Special Topics in CS (3)
- EE 4800 Special Topics in EE (3)
- ENVE 4510 Baccalaureate Thesis (3)
- FW 4500 Independent Study (3)
- GE 4960 Independent Geol. Eng. Res. Project (3)
- MA 4990 Topics in Mathematics (3)
- PH 4080 Senior Research I (3)

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**Credits Required = 16**

Total Credits ________