**Undergraduate Program Name: BS in Geospatial Sciences (BSGSS) (Information Systems (IS) Concentration)**
**Graduate Program Name: MS in Information Technology (MSIT)**

Course Pairs:

| Double Owl Scholars will NOT take the following BSGSS-IS courses: | In their place, Double Owl Scholars will take the following MSIT courses: |
|---|---|
| IS 3100 Information Systems Management | IT 6413: IT Service Delivery |
| IS 3220 Global IS Project Management | IT 6423: IT System Acquisition & Integration |
| ISA 3100 Principles of Information Security | IT 6823: Information Security Concepts and Administration |

Note: Students who are in the double owl program are strongly recommended to take the following courses as their free electives. With those courses, a student will earn an IT minor and all foundation courses will be waived when getting admitted to the MSIT program.

- CSE 3153: Database Systems
- IT 1113: Programming Principles
- IT 3123: Hardware and Software Concepts
- IT 4323: Data Communications & Networking

### MSIT Capstone Option

| Year 1 - Fall | Credits | Year 1 - Spring | Credits |
|---|---|---|---|
| ENGL 1101 ** Composition I | 3 | ENGL 1102** Composition II | 3 |
| ECON 1000 Contemporary Economics Issues | 2 | HIST 1100, 1111, or 1112 World History | 3 |
| MATH 1101, 1111,1113,1190, or STAT 1401 [consult Catalog for pre-reqs] | 3 | STAT 1401, MATH 1113, MATH 1160, MATH 1190, or MATH 2202 [consult Catalog for pre-reqs] | 3 |
| GEOG 1112* or GEOG 1113** | 4 | SCI 1101, GEOG 1112, GEOG 1113, BIO 1107+L | 4 |
| GEOG 1110** The Digital Earth | 3 | GEOG 1101** or GEOG 1125 ** or GEOG 1130** | 3 |
| **TOTAL SEMESTER CREDITS** | **15** | **TOTAL SEMESTER CREDITS** | **16** |
| **Year 2 - Fall** | **Credits** | **Year 2 - Spring** | **Credits** |
| POLS 1101 American Government | 3 | HIST 2111 or HIST 2112 United States History | 3 |
| ANTH 1102, CRJU 1101, ECON 2100, GEOG 1101, PSYC 1101, SOCI 1101, or STS 1101 | 3 | AADS 1102, AMST 1102, ASIA 1102, COM 1100, FL 1002, GWST 1102, LALS 1102, LDRS 2300, PAX 1102, PHIL 2200, PLOS 2401, or RELS 1102 | 3 |
| SCI 1102, GEOG 1112, GEOG 1113, BIO 1108 | 3-4 | ENGL 2110, 2111, 2112, 2120, 2121, 2122, 2130, 2131, 2132, or 2300 [ENGL 1102], PHIL 2010 | 3 |
| GEOG 3305** Intro to Cartographic Processes | 3 | GEOG 4405** Advanced Geographic Information Systems | 3 |
| GEOG 3315** Intro to Geographic Information Systems | 3 | IS 2200** | 3 |
| | | | |
| **TOTAL SEMESTER CREDITS** | **15-16** | **TOTAL SEMESTER CREDITS** | **15** |
| **Apply to BSGSS IS – MSIT Double Owl Program and Start Graduate Work** | | | |
| **Year 3 - Fall** | **Credits** | **Year 3 - Spring** | **Credits** |
| Area F elective ** | 3 | Area F elective ** | 3 |

| | Credits | | Credits |
|---|---|---|---|
| GEOG 2391** Professionalism and Ethics | 2 | ART 1107, DANC 1107, MUSI 1107, or TPS 1107 | 3 |
| SURV 3320** Drone Analysis and Photogrammetry | 3 | GEOG 4410** Introduction to Remote Sensing | 3 |
| Free Elective (1st of 5) | 3 | IT 6423 IT System Acquisition and Integration | 3 |
| IS 3260 Web Development I (concentration course 1 of 4) | 3 | Free Elective (2nd of 5) | 6 |
| **TOTAL SEMESTER CREDITS** | **14** | **TOTAL SEMESTER CREDITS** | **15** |

| **Apply to MSIT Program** | | | |
|---|---|---|---|
| **Year 4 - Fall** | **Credits** | **Year 4 - Spring** | **Credits** |
| Group A Course** (1st of 2) | 3 | GIS 3398** Internship | 6 |
| Group A Course** (2nd of 2) | 3 | Group B Course** | 3 |
| IT 6413: IT Service Delivery | 3 | IT 6823 Information Security Concepts & Administration | 3 |
| Free Elective (3rd of 5) | 3 | Free Elective (5th of 5) | 3 |
| Free Elective (4th of 5) | 3 | | |
| **TOTAL SEMESTER CREDITS** | **15** | **TOTAL SEMESTER CREDITS** | **15** |

| **MSIT Graduate Courses** | | | |
|---|---|---|---|
| **Year 5 - Fall** | **Credits** | **Year 5 - Spring** | **Credits** |
| IT 6203:IT Design Studio | 3 | IT 7993:IT Capstone | 3 |
| IT 7XXX Elective 1 | 3 | IT 7XXX Elective 4 | 3 |
| IT 7XXX Elective 2 | 3 | IT 7XXX Elective 5 | 3 |
| IT 7XXX Elective 3 | 3 | | |
| **TOTAL SEMESTER CREDITS** | **12** | **TOTAL SEMESTER CREDITS** | **9** |
| **Year 6 - Fall** | **Credits** | **Year 6 - Spring** | **Credits** |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| **TOTAL SEMESTER CREDITS** | **0** | **TOTAL SEMESTER CREDITS** | **0** |

**PATHWAY TOTAL:** 141- 142 credit hours.
UNGR TOTAL (120 – 121 credit hours) + GRAD TOTAL (30 credit hours) – PAIRED CREDIT (9 credit hours)
Graduate program has two options:

Capstone option: IT 7993 Capstone and 15 credit hours from Elective Course List

# MSIT Thesis Option

| Year 1 - Fall | Credits | Year 1 - Spring | Credits |
|---|---|---|---|
| ENGL 1101 ** Composition I | 3 | ENGL 1102** Composition II | 3 |
| ECON 1000 Contemporary Economics Issues | 2 | HIST 1100, 1111, or 1112 World History | 3 |
| MATH 1101, 1111,1113,1190, or STAT 1401 [consult Catalog for pre-reqs] | 3 | STAT 1401, MATH 1113, MATH 1160, MATH 1190, or MATH 2202 [consult Catalog for pre-reqs] | 3 |
| GEOG 1112* or GEOG 1113** | 4 | SCI 1101, GEOG 1112, GEOG 1113, BIO 1107+L | 4 |
| GEOG 1110** The Digital Earth | 3 | GEOG 1101** or GEOG 1125 ** or GEOG 1130** | 3 |
| **TOTAL SEMESTER CREDITS** | **15** | **TOTAL SEMESTER CREDITS** | **16** |
| **Year 2 - Fall** | **Credits** | **Year 2 - Spring** | **Credits** |
| POLS 1101 American Government | 3 | HIST 2111 or HIST 2112 United States History | 3 |
| ANTH 1102, CRJU 1101, ECON 2100, GEOG 1101, PSYC 1101, SOCI 1101, or STS 1101 | 3 | AADS 1102, AMST 1102, ASIA 1102, COM 1100, FL 1002, GWST 1102, LALS 1102, LDRS 2300, PAX 1102, PHIL 2200, PLOS 2401, or RELS 1102 | 3 |
| SCI 1102, GEOG 1112, GEOG 1113, BIO 1108 | 3-4 | ENGL 2110, 2111, 2112, 2120, 2121, 2122, 2130, 2131, 2132, or 2300 [ENGL 1102], PHIL 2010 | 3 |
| GEOG 3305** Intro to Cartographic Processes | 3 | GEOG 4405** Advanced Geographic Information Systems | 3 |
| GEOG 3315** Intro to Geographic Information Systems | 3 | IS 2200** | 3 |
| | | | |
| **TOTAL SEMESTER CREDITS** | **15-16** | **TOTAL SEMESTER CREDITS** | **15** |
| **Apply to BSGSS IS – MSIT Double Owl Program and Start Graduate Work** | | | |
| **Year 3 - Fall** | **Credits** | **Year 3 - Spring** | **Credits** |
| Area F elective ** | 3 | Area F elective ** | 3 |
| GEOG 2391** Professionalism and Ethics | 2 | ART 1107, DANC 1107, MUSI 1107, or TPS 1107 | 3 |
| SURV 3320** Drone Analysis and Photogrammetry | 3 | GEOG 4410** Introduction to Remote Sensing | 3 |
| Free Elective (1st of 5) | 3 | IT 6423 IT System Acquisition and Integration | 3 |
| IS 3260 Web Development I (concentration course 1 of 4) | 3 | Free Elective (2nd of 5) | 6 |
| **TOTAL SEMESTER CREDITS** | **14** | **TOTAL SEMESTER CREDITS** | **15** |
| **Apply to MSIT Program** | | | |
| **Year 4 - Fall** | **Credits** | **Year 4 - Spring** | **Credits** |
| Group A Course** (1st of 2) | 3 | GIS 3398** Internship | 6 |
| Group A Course** (2nd of 2) | 3 | Group B Course** | 3 |
| IT 6413: IT Service Delivery | 3 | IT 6823 Information Security Concepts & Administration | 3 |
| Free Elective (3rd of 5) | 3 | Free Elective (5th of 5) | 3 |
| Free Elective (4th of 5) | 3 | | |
| **TOTAL SEMESTER CREDITS** | **15** | **TOTAL SEMESTER CREDITS** | **15** |
| **MSIT Graduate Courses** | | | |
| **Year 5 - Fall** | **Credits** | **Year 5 - Spring** | **Credits** |
| IT 6203:IT Design Studio | 3 | IT 7999 Thesis | 3 |
| IT 7XXX Elective 1 | 3 | IT 7XXX Elective 3 | 3 |

Date Last Revised: 8/1/2023

| | Credits | | Credits |
|---|---|---|---|
| IT 7XXX Elective 2 | 3 | IT 7XXX Elective 4 | 3 |
| IT 7999 Thesis | 3 | | |
| **TOTAL SEMESTER CREDITS** | **12** | **TOTAL SEMESTER CREDITS** | **9** |
| **Year 6 - Fall** | **Credits** | **Year 6 - Spring** | **Credits** |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| **TOTAL SEMESTER CREDITS** | **0** | **TOTAL SEMESTER CREDITS** | **0** |

**PATHWAY TOTAL:** 141- 142 credit hours.
UNGR TOTAL (120 – 121 credit hours) + GRAD TOTAL (30 credit hours) – PAIRED CREDIT (9 credit hours)
Graduate program has two options:

Thesis option: IT 7999 thesis (6 credit hours) and 12 credit hours from Elective Course List