

**Applied Information Technology, MS  
Advising Sheet: 2017-2018 Catalog**

Name: \_\_\_\_\_  
G#: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor Seen: \_\_\_\_\_

**Cyber Security Concentration (CYBR)**

| Core (12 credits)   |          |       |            |
|---|----------|-------|------------|
| COURSE  | SEMESTER | GRADE | COMPLETED? |
| AIT 512 <i>Algorithms and Data Structure Essentials</i>                   |          |       |            |
| AIT 524 <i>Database Management Systems</i>                                |          |       |            |
| AIT 542 <i>Fundamentals of Computing Platforms</i>                        |          |       |            |
| AIT 664 <i>Information: Representation, Processing, and Visualization</i> |          |       |            |

| Concentration (18 credits)  |          |       |            |
|---|----------|-------|------------|
| Required Courses (12 credits)                                       |          |       |            |
| COURSE  | SEMESTER | GRADE | COMPLETED? |
| AIT 660 <i>Cyber Security Fundamentals</i>                          |          |       |            |
| AIT 681 <i>Secure Software Development</i>                          |          |       |            |
| AIT 682 <i>Network and Systems Security</i>                         |          |       |            |
| AIT 702 <i>Incident Handling and Penetration Testing</i>            |          |       |            |
| Concentration Electives (6 credits)                                 |          |       |            |
| <i>Two from AIT 670 or AIT 672 or AIT 699 or AIT 701 or AIT 799</i> |          |       |            |
|   |          |       |            |
|   |          |       |            |

**Advising Resources**

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- To view your catalog requirements, please visit <http://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/applied-information-technology-ms/>
- To view your degree evaluation, at any time, please follow the instructions posted at <http://registrar.gmu.edu/students/degree-evaluation/degree-works/>

**AP.6.9 Requirements for Master's Degrees**

Candidates must have a minimum GPA of 3.00 in coursework presented on the degree application, which may include no more than 6 credits of C. (Grades of C+, C-, or D do not apply to graduate courses. The GPA calculation excludes all transfer courses and Mason nondegree studies credits not formally approved for the degree.)

A degree-seeking graduate student may be terminated if they fail to make satisfactory progress toward degree as determined by the academic unit; or if they accumulate grades of F in two graduate courses or 9 credits of unsatisfactory grades in graduate courses. Provisionally-Admitted degree seeking graduate students and Non-degree graduate students may be terminated for unsatisfactory academic performance as described in the catalog (AP.6.6.2 Academic Termination).



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**Cyber-Human Systems Concentration (CBHS)**

| Core (12 credits)   |          |       |            |
|---|----------|-------|------------|
| COURSE  | SEMESTER | GRADE | COMPLETED? |
| AIT 512 <i>Algorithms and Data Structure Essentials</i>                   |          |       |            |
| AIT 524 <i>Database Management Systems</i>                                |          |       |            |
| AIT 542 <i>Fundamentals of Computing Platforms</i>                        |          |       |            |
| AIT 664 <i>Information: Representation, Processing, and Visualization</i> |          |       |            |

| Concentration (18 credits)   |          |       |            |
|--|----------|-------|------------|
| Required Courses (12 credits)  |          |       |            |
| COURSE   | SEMESTER | GRADE | COMPLETED? |
| AIT 582 <i>Applications of Metadata in Complex Big Data Problems</i>           |          |       |            |
| AIT 602 <i>Introduction to Research in Applied Information Technology</i>      |          |       |            |
| AIT 716 <i>Human Computer Interactions</i>                                     |          |       |            |
| AIT 724 <i>Data Analytics in Social Media</i>                                  |          |       |            |
| Concentration Electives (6 credits)  |          |       |            |
| <i>Two from AIT 614 or AIT 624 or AIT 699 or AIT 711 or AIT 734 or AIT 799</i> |          |       |            |
|  |          |       |            |
|  |          |       |            |

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**Data Analytics and Intelligence Methods (DAIN)**

| Core (12 credits)   |          |       |            |
|---|----------|-------|------------|
| COURSE  | SEMESTER | GRADE | COMPLETED? |
| AIT 512 <i>Algorithms and Data Structure Essentials</i>                   |          |       |            |
| AIT 524 <i>Database Management Systems</i>                                |          |       |            |
| AIT 542 <i>Fundamentals of Computing Platforms</i>                        |          |       |            |
| AIT 664 <i>Information: Representation, Processing, and Visualization</i> |          |       |            |

| Concentration (18 credits)   |          |       |            |
|--|----------|-------|------------|
| Required Courses (12 credits)  |          |       |            |
| COURSE   | SEMESTER | GRADE | COMPLETED? |
| AIT 614 <i>Big Data Essentials</i>   |          |       |            |
| AIT 624 <i>Knowledge Mining from Big-Data</i>  |          |       |            |
| AIT 677 <i>Intelligence Analysis Methods</i>   |          |       |            |
| AIT 724 <i>Data Analytics in Social Media</i>  |          |       |            |
| Concentration Electives (6 credits)  |          |       |            |
| <i>Two from AIT 582 or AIT 699 or AIT 711 or AIT 716 or AIT 734 or AIT 799 or CFRS 500 or CFRS 660</i> |          |       |            |
| AIT 582 <i>Applications of Metadata in Complex Big Data Problems</i>                                   |          |       |            |

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**IT Management in the Federal Sector (IMFS)**

| Core (12 credits)  |          |       |            |
|--|----------|-------|------------|
| COURSE   | SEMESTER | GRADE | COMPLETED? |
| AIT 524 <i>Database Management Systems</i>                               |          |       |            |
| AIT 542 <i>Fundamentals of Computing Platforms</i>                       |          |       |            |
| AIT 580 <i>Analytics: Big Data to Information</i>                        |          |       |            |
| AIT 664 <i>Information Representation, Processing, and Visualization</i> |          |       |            |

| Concentration (18 credits)  |          |       |            |
|---|----------|-------|------------|
| Concentration Elective Courses (18 credits)   |          |       |            |
| Choose six courses from AIT 582 or AIT 614 or AIT 622 or AIT 660 or AIT 665 or AIT 670 or AIT 672 or AIT 677 or AIT 678 or AIT 679 or AIT 685 or AIT 697 or AIT 701 |          |       |            |
| COURSE  | SEMESTER | GRADE | COMPLETED? |
|   |          |       |            |
|   |          |       |            |
|   |          |       |            |
|   |          |       |            |
|   |          |       |            |

Students in this concentration may also take other IST graduate-level courses not listed above as part of their MS technical electives, subject to approval of the advisor.

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