Applied Information Technology MS with Health Information Technology Graduate Certificate (HINT)-Course Checklist

Health Information Technology Required Core Courses (15 units)

- ☐ 1. <u>AIT 600 Information Technology Infrastructure (3 units)</u>
- ☐ 2. <u>AIT 610 System Development Process (3 units)</u>
- ☐ 3. <u>HLTH 633 Health Care Systems* (3 units)</u> **OR** <u>HCMN 535 Health Information and Quality Management * (3 units)</u> (**)
- ☐ 4. <u>AIT 645 Health Data Analytics (3)</u> **OR** <u>AIT 644 Healthcare Information Technologies (3)</u> (**)
- ☐ 5. <u>AIT 740 Case Studies in Healthcare Information Technologies* (3 units)</u>

(**) These courses meet in-person. No online sections will be offered.

AIT Elective Courses*(15 units) (electives listed on page 2)

- ☐ 1._____
- ☐ 2._____
- ☐ 3._____
- ☐ 4._____
- ☐ 5._____

AIT-500 Fundamentals of Computer Programming and Data Structures * (6 units)
(if necessary will be indicated in admission letter from AIT Program Director and milestone assigned in Student Center)

- ☐ AIT 500 Fundamentals of Computer Programming and Data Structures

OR

- ☐ AIT 500 Not Necessary

Notes

- ■ * HLTH 633 Health Care Systems and HCMN 535 Health Information and Quality Management follow the regular in-state or out-of-state <u>graduate tuition</u> and not the Applied Information Technology rate structure. They also require coordination with another graduate program for enrollment; AIT students who wish to take either of these courses must contact the AIT Program Coordinator the semester before they plan to enroll in the course.
- ■ *AIT 697 Graduate Internship and AIT Case Study courses require special permission for registration; processes for both are outlined in the AIT M.S. Program site on BlackBoard.
- ■ *All AIT graduate students are allowed one non-AIT elective, subject to the approval of the Program Director; process for approval outlined in the AIT M.S. Program site on BlackBoard.

- *AIT 5OO Fundamentals of Computer Programming and Data Structures cannot be counted towards elective requirements.
- Multiple graduate certificates can be earned through the completion of additional Case Study courses; Case studies do NOT count as elective courses
- Awarding of AIT MS and graduate certificate degrees also subject to additional graduation requirements, including but not limited to: Overall GPA of 3.0, 7-year time limit starting with the first course used to fulfil degree requirements, no more than two 500-level courses; See Graduate Catalog for complete details (catalog.towson.edu/graduate)

Applied Information Technology Electives

- ☐ AIT 612 Information Systems Vulnerability and Risk Analysis (3 units)
- ☐ AIT 613 Introduction to Software Security (3 units)
- ☐ AIT 614 Network Security (3 units)
- ☐ AIT 616 Fundamentals of Web Technologies and Development (3 units)
- ☐ AIT 618 Client/Server-side programming on the Web (3 units)
- ☐ AIT 620 Business Data Communications (3 units)
- ☐ AIT 622 Networks Architecture and Protocols (3 units)
- ☐ AIT 628 Information Technology Infrastructure (3 units)
- ☐ AIT 630 Information Technology Project Management (3 units)
- ☐ AIT 632 Database Management Systems (3 units)
- ☐ AIT 641 Software Requirements Engineering (3 units)
- ☐ AIT 642 Software Testing and Maintenance (3 units)
- ☐ AIT 644 Health Information Technology (3 units)
- ☐ AIT 645 Healthcare Data Analytics (3 units)
- ☐ AIT 650 Computer & Networks Forensics and Incident Response (3 units)
- ☐ AIT 652 Ethics, Law, and Policy in Cyberspace (3 units)
- ☐ AIT 655 Managing Information Security (3 units)
- ☐ AIT 660 Mobile Device Forensics (3 units)
- ☐ AIT 665 Cloud Computing (3 units)
- ☐ AIT 670 Special Topics in Applied Information Technology (3 units)
- ☐ AIT 697 Graduate Internship** (3 units)
- ☐ AIT 732 Advanced Database Management Systems (3 units)

Recommendations

- Recommended electives for HINT are: AIT 612, AIT 614, AIT 628, AIT 632, AIT 655
- Suggested/Popular non-AIT electives include: COSC 757, COSC 760, PRWR 621, PRWR 623