Applied Information Technology MS with Database Management Graduate Certificate (DBMS)-Course Checklist

Database Management Required Core Courses (15 units)
 Database Management Required Core Courses (15 units) 1. AIT 600 Information Technology Infrastructure (3 units) 2. AIT 610 System Development Process (3 units) 3. AIT 632 Database Management Systems (3 units) 4. AIT 732 Advanced Database Management Systems (3 units) 5. AIT 735 Case Studies in Database Management Systems* (3 units)
AIT Elective Courses* (15 units) (electives listed on page 2)
□ 1
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

- *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 500 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)

Ap	plied 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 DBMS are: AIT 612, AIT 613, AIT 616, AIT 618, AIT 620, AIT 628, AIT 630, AIT 641, AIT 643, AIT 652, AIT 655
- Suggested/Popular non AIT electives include: COSC 757, COSC 760, PRWR 621, PRWR 623