Academic Year 2019-20

GUIDE TO GRADUATION

BACHELOR OF SCIENCE: Applied Information Technology

UNIVERSITY OF BALTIMORE

Yale Gordon College of Arts and Sciences

ubalt.edu/ait

UNIVERSITY OF BALTIMORE
Knowledge That Works

B.S. in Applied Information Technology
Academic Year 2019-20

The **Yale Gordon College of Arts and Sciences** is committed to providing the guidance and support you need to complete your program in a timely manner. This Guide to Graduation provides the in-depth information necessary to assist you in planning your undergraduate academic career. It contains contact information, important resources, a program checklist and a suggested four-year plan of study.

While this information will be helpful to you, you should also contact your academic adviser. You adviser is there to assist you in planning your program plan of study and to answer your questions. All new students are required to meet with an adviser prior to registering for their first semester to receive a personalized program checklist.

UB recognizes that consistent and timely academic advising is strongly related to student success. To enhance the services we provide to our students and to increase the likeliness for success and on-time degree completion, UB implemented mandatory milestone advising for all new undergraduate students beginning in fall 2017.

Milestone advising will be anchored by three specific touch points and aligned with the personal, professional and academic goals of students at those points.

45 Credits: Advisers will work with students to further explore the declared major and connect students with support services, clubs and other campus groups to enhance the opportunity to be involved in the UB community.

60 Credits: Advisers will work with students to prepare for internships, Global Field Studies and other experiential learning opportunities. Students will also be re-introduced to the support services offered by the Career and Internship Center.

90 Credits: Advisers will focus on the final steps to graduation and the options for post-bachelor's degree completion. Students will learn more about the graduate degree programs at UB that fit with their goals.

Students must meet with their advisers to discuss their next steps for registration, course scheduling and other key academic topics before they register for classes. Advisers will release the milestone advising service indicator on students' accounts at the conclusion of the advising meetings.

Your academic adviser will assist you throughout your time at UB at any credit point; however, it is ultimately your responsibility to complete the degree requirements and acquaint yourself with the University's academic policies.

CONTACT INFO:

Yale Gordon College of Arts and Sciences Advising Center
Academic Center, Room 209G
410-837-5023
ubalt.edu/ait

RESOURCES:

Office of Records and Registration
ubalt.edu/records

Office of Financial Aid
ubalt.edu/financialaid

Office of the Bursar
ubalt.edu/bursar

Academic Success
ubalt.edu/success

Career and Internship Center
ubalt.edu/careercenter

Call to schedule your advising appointment today.

B.S. IN APPLIED INFORMATION TECHNOLOGY PROGRAM CHECKLIST

120 credits required to graduate; note the grades required for each type of requirement below

General Education Requirements – 38 credits

- Students entering in fall 2016 and later
- Upper-division courses are 300 or 400 level.
- Complete with a grade of C- or higher except where noted.
- See course lists for each area.

Arts and Humanities Area (AH, AHE) – 9 credits

Complete one course from two separate AH disciplines, and one upper-division Ethics (AHE) course.

	Course Title	Term	Grade	Credit Hours
AH1:	_____	_____	_____	_____
AH2:	_____	_____	_____	_____
***AHE:**	_____	_____	_____	_____

**(upper division, C or better)*

Social and Behavioral Sciences Area (SBS) – 6 credits

Complete one course from two separate SBS disciplines.

	Course Title	Term	Grade	Credit Hours
SBS1:	_____	_____	_____	_____
SBS2:	_____	_____	_____	_____

Biological and Physical Sciences Area (BPS, BPSL) – 7 credits

Complete two courses, one of which must be a laboratory course.

	Course Title	Term	Grade	Credit Hours
BPS:	_____	_____	_____	_____
BPSL:	_____	_____	_____	_____

Mathematics Area (MA) – 3 credits

Complete one course. Check your major requirements for recommendation. Note: placement required prior to registration

❑ Complete Math Placement: RSVP at ubalt.edu/placement

	Course Title	Term	Grade	Credit Hours
MA:	_____	_____	_____	_____

English Composition Area (COMP, UCOMP) – 6 credits

Complete two composition courses, one of which must be upper division. Note: placement required prior to registration

	Course Title	Term	Grade	Credit Hours
COMP:	_____	_____	_____	_____
***UCOMP:**	_____	_____	_____	_____

(upper division, C or better)

General Education Electives (ELECGE) – 7+ credits

Complete as many general education courses as needed to reach 38-credit requirement.

	Course Title	Term	Grade	Credit Hours
ELECGE:	_____	_____	_____	_____
ELECGE:	_____	_____	_____	_____
ELECGE:	_____	_____	_____	_____

Students with an A.A. or A.S. degree from a Maryland public institution complete only the AHE and UCOMP requirements.

University of Baltimore Graduation Requirements

- Students entering in fall 2017 and later
- For General Education GR courses, earn a grade of C- or higher.
- For GR courses within your academic program, follow the grade requirements of the program.
- Consult with your academic adviser on the best course selections for your program.
- See lists of approved courses.

	Term	Grade	Credit Hours
Information Literacy (IL)			
COSC 324: Designing for Humans	_____	_____	_____
Technological Fluency (TF)			
COSC 151: Computer programming I	_____	_____	_____
Oral Communication (OC)			
COSC 490: Practicum in Information Technology	_____	_____	_____
Global Awareness and Diverse Perspectives (GD)			
COSC 332: Fundamentals of Computer Security	_____	_____	_____
Capstone Experience			
COSC 490: Practicum in Information Technology	_____	_____	_____

B.S. in Applied Information Technology Requirements – 69 credits

- Students entering in fall 2017 and later
- Ensure you have met any prerequisites before registering for courses.
- Complete with a grade of C or higher.
- Consult with your adviser to determine which course to take when.

> Core Program Courses – 42 credits

Course	Term	Grade	Credit Hours
• COSC 151: Computer Programming	_____	_____	_____
• COSC 155: Internet Tech: Mastering Basics	_____	_____	_____
• COSC 210: Comp. Hardware/Software Support	_____	_____	_____
• COSC 212:Intro to Linux	_____	_____	_____
• COSC 251: Computer Programming II	_____	_____	_____
• COSC 310: Fundamentals of Comp. Networks	_____	_____	_____
• *Choose one:*			
❑ COSC 312: Admin. & Supporting Network OS	_____	_____	_____
❑ COSC 412: Unix/Linux Administration	_____	_____	_____
• COSC 324: Designing for Humans	_____	_____	_____
• COSC 332: Fundamentals of Comp. Security	_____	_____	_____
• COSC 351: Object-Oriented Programming	_____	_____	_____
• COSC 356: Database Systems	_____	_____	_____
• COSC 401: The TCP/IP Protocol Suite	_____	_____	_____
• COSC 461: IT Project Management	_____	_____	_____
• COSC 490: Practicum in Info Technology	_____	_____	_____

> Math Requirements – 9 credits

• MATH 201: Calculus 1	_____	_____	_____
• MATH 303: Applied Probability and Statistics	_____	_____	_____
• MATH 321: Mathematical Structures for Information Technology	_____	_____	_____

> Track – 18 credits

Select a track: _____

Application Development and Programming Track

Course	Term	Grade	Credit Hours
• *Choose one:*			
❑ COSC 432: Info Assurance & Security	_____	_____	_____
❑ COSC 433: Network Security	_____	_____	_____
❑ COSC 435: Digital Forensics	_____	_____	_____
• COSC 434: Web and Database Security	_____	_____	_____
• COSC 451: Object-Oriented Analysis & Design	_____	_____	_____
• COSC 453: Advanced Web Development	_____	_____	_____
• COSC 456: Advanced Database Systems	_____	_____	_____
• COSC 457: Mobile Applications Programming	_____	_____	_____

Information Security and Assurance Track

Course	Term	Grade	Credit Hours
• COSC 430: Legal Issues in High Tech. Crime	_____	_____	_____
• COSC 432: Info Assurance and Security	_____	_____	_____
• COSC 433: Network Security	_____	_____	_____
• COSC 434: Web and Database Security	_____	_____	_____
• COSC 435: Digital Forensics	_____	_____	_____
• *Choose one:*			
❑ COSC 453: Advanced Web Development	_____	_____	_____
❑ COSC 456: Advanced Database Systems	_____	_____	_____
❑ COSC 457: Mobile Apps Programming	_____	_____	_____

> General Electives

Complete as many course as necessary from any discipline to fulfill your 120-credit requirement to graduate.

Course Name and Number	Term	Grade	Credit Hours

4-Year Plan for Incoming Freshmen: Applied Information Technology, B.S.

Application Development and Programming Track

Below is an example plan of study for the Applied Information Technology, Application Development and Programming Track program. This is meant to act as a guide, but need not be followed in the same order for every student. Part-time students and those students transferring in credits from another university or college will need to adjust their plan accordingly. This plan does not account for courses taken during summer sessions. Students should consult with their adviser each semester prior to registration.

Year 1

1st Semester	
WRIT 100 or COSC 151 (GR)	3
WRIT 101	0-3
IDIS 101 (First-Year Seminar) GE Elective	3
Learning Community Course (Arts and Humanities)	3
Learning Community Course (Social and Behavioral)	3
	12-15

2nd Semester	
COSC 155	3
COSC 210	3
INFO 110 (GR)	3
Arts and Humanities	3
MATH 111	3
	15

Year 2

3rd Semester	
COSC 212	3
COSC 310	3
MATH 201	3
COSC 251	3
Social and Behavioral Sciences	3
	15

4th Semester	
Elective or WRIT 200	3
MATH 321	3
COSC 332 (GR)	3
COSC 351	3
Science with Lab (GE)	4
	16

Year 3

5th Semester	
COSC 312 or 412 (412 offered in spring)	3
COSC 356	3
COSC 401	3
Science without Lab (GE)	3
WRIT 300 (Upper-Level GE)	3
	15

6th Semester	
COSC 324 (GR)	3
COSC 432 or 433 or 435 (432 offered in fall)	3
COSC 453	3
MATH 303	3
IDIS 302 (Upper-Level GE)	3
	15

Year 4

7th Semester	
COSC 451	3
COSC 434	3
COSC 457	3
COSC 461	3
Elective	3
	15

8th Semester	
COSC 456	3
COSC 490 (GR)	3
Elective	3
Elective	3
Elective	3
	15

	Total	
58-61	**121**	**60**

4-Year Plan for Incoming Freshmen: Applied Information Technology, B.S.

Information Security and Assurance Track

Below is an example plan of study for the Applied Information Technology, Information Security and Assurance Track program. This is meant to act as a guide, but need not be followed in the same order for every student. Part-time students and those students transferring in credits from another university or college will need to adjust their plan accordingly. This plan does not account for courses taken during summer sessions. Students should consult with their adviser each semester prior to registration.

Year 1

1st Semester	
WRIT 100 or COSC 151 (GR)	3
WRIT 101	0-3
IDIS 101 (First-Year Seminar) GE Elective	3
Learning Community Course (Arts and Humanities)	3
Learning Community Course (Social and Behavioral)	3
	12-15

2nd Semester	
COSC 155	3
COSC 210	3
INFO 110 (GR)	3
Arts and Humanities	3
MATH 111	3
	15

Year 2

3rd Semester	
COSC 212	3
COSC 310	3
MATH 201	3
COSC 251	3
Elective or WRIT 200	3
	15

4th Semester	
Social and Behavioral Sciences	3
MATH 321	3
COSC 332 (GR)	3
COSC 351	3
Science with Lab (GE)	4
	16

Year 3

5th Semester	
COSC 312 or 412 (412 offered in spring)	3
COSC 356	3
COSC 401	3
Science without Lab (GE)	3
WRIT 300 (Upper-Level GE)	3
	15

6th Semester	
COSC 324 (GR)	3
COSC 453 or 456 or 457 (457 offered in fall)	3
MATH 303	3
IDIS 302 (Upper-Level GE)	3
COSC 433	3
	15

Year 4

7th Semester	
COSC 434	3
COSC 430	3
COSC 432	3
COSC 461	3
Elective	3
	15

8th Semester	
COSC 435	3
COSC 490 (GR)	3
Elective	3
Elective	3
Elective	3
	15

	Total	
58-61	**121**	**60**