

COMPUTER INFORMATION SYSTEMS

A.A.S. Degree*

¹ Students with English Proficiency Index (EPI) of 0-49 enroll in corequisite course ENG 100. Students with EPI of 50-64 enroll in corequisite course ENG 110. Students with EPI of at least 65 (or other English proficiency qualification) enroll in ENG 111. Students with ESL need should take appropriate ESL course/s (Sequence: ESL 01 > 02 > 03 > 09) before enrolling in ENG 110.

² Students accepted into the apprenticeship opportunities will enroll in a combination of CWE 41, CWE 42 and CWE 43 in place of ACC 111, CWE 31, DAT 33 and KEY 10. If students have completed any or all of these courses prior to participating in the apprenticeship, alternative course substitutions may be determined.

³ It is highly recommended that students take FYS 11 in their first or second semester prior to earning 24 credits. This requirement will be waived for students who have earned 24 or more degree or equated credits at BCC. Students transferring into the program with 24 or more degree or equated credits will also be exempt from FYS 11 and only required to complete 60 credits to graduate.

⁴ Students with Math Proficiency Index (MPI) of 0-59 enroll in corequisite course MTH 21.5 OR MTH 23.5. Students with MPI of 39 or lower are strongly encouraged to enroll in Math Start/CUNY Start. Students planning to transfer to a four-year college should take MTH 30 or 31.

⁵ Students may select either a 4-credit or a 3-credit science course. Students selecting a 3-credit course must also complete an additional 1-credit lab course to fulfill graduation requirements.

⁶ HIS 11 is for students who enroll in ENG 110 as a corequisite.

⁷ CWE 31 is a two (2) credit course. Students should enroll in CWE 31 one year before graduating or when they have completed 30 credits towards their degree. Students should see the CWE 31 Coordinator in the Department of Business and Information Systems, during their second semester. Students who are employed full-time are not required to complete the internship portion of CWE 31, provided their employer agrees to participate in course-related surveys. Permission must be obtained from the CWE 31 Coordinator or Department Chairperson by submitting documentation of current full-time employment College. Work-Study assignments within CUNY may not be used as substitutes for the CWE internship.

⁸ In an effort to provide students with a well-rounded liberal learning experience, students are encouraged to fulfill this requirement by selecting courses from Flexible Core Areas B, C or E as these areas are not already required by this program. See [Common Core Pathways course listing](#).

*Note: In order to [apply for graduation](#), students must complete all required courses with appropriate grades, complete two writing intensive courses, and have a minimum GPA of 2.0.

SEMESTER I Freshman

	Prerequisite/Corequisite	
<input type="checkbox"/> Required Core A: English Composition I - ENG 100 Integrated Reading and Writing OR ENG 110 Fundamentals of Writing and Rhetoric OR ENG 111 Writing and Rhetoric ¹	See footnote ¹	3
<input type="checkbox"/> Flexible Core D or B: ECO 11 Microeconomics OR ECO 12 Macroeconomics	Corequisite: ENG 110, if required	3
<input type="checkbox"/> Major Requirement: BUS 110 Introduction to Business Fundamentals	Corequisite: ENG 110, if required; MTH 23.5 or MTH 28.5, if required; and DAT 10 or DAT 33	3
<input type="checkbox"/> Major Requirement: DAT 30 Introduction to Computer Fundamentals and Programming	Corequisites: ENG 100, if required; and MTH 23.5 or 28.5, if required	3
<input type="checkbox"/> Major Requirement: DAT 33 Microcomputer Applications ²	Corequisites: ENG 100, if required; and MTH 23.5 or 28.5, if required	2
<input type="checkbox"/> Major Requirement: KEY 10 Keyboarding for Computers ²	None	1
<input type="checkbox"/> Major Requirement: FYS 11 First Year Seminar ³	None	0-1
Subtotal:		15-16

SEMESTER II Freshman

	Prerequisite/Corequisite	
<input type="checkbox"/> Required Core A: ENG 112 Composition and Rhetoric II OR ENG 113 Writing About Literature OR ENG 114 Written Composition and Prose Fiction OR ENG 115 Written Composition and Drama OR ENG 116 Written Composition and Poetry	ENG 100, 110, or 111	3
<input type="checkbox"/> Required Core B: MTH 21 A Mathematical World OR MTH 21.5 A Mathematical World with Algebra OR MTH 23 Probability and Statistics OR MTH 23.5 Probability and Statistics with Algebra ⁴	See footnote ⁴	3
<input type="checkbox"/> Major Requirement: BIS 13 Website Development	KEY 10 or dept. approval; Corequisite: ENG 100, if required	3
<input type="checkbox"/> Major Requirement: DAT 36 Microcomputer Applications	DAT 10 or DAT 30 or DAT 33 or dept. approval	3
<input type="checkbox"/> Major Requirement: DAT 47 JAVA Programming	DAT 10 or DAT 30 or dept. approval	3
Subtotal:		16

SEMESTER III Sophomore

	Prerequisite/Corequisite	
<input type="checkbox"/> Required Core C: Select ONE course from Life and Physical Sciences ⁵	See catalog ⁵	3-4
<input type="checkbox"/> Flexible Core A: HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World ⁶	See catalog	3
<input type="checkbox"/> Major Requirement: ACC 111 Principles of Accounting I ²	Corequisite: MTH 23.5 or MTH 28.5, if required; ENG 110, if required	4
<input type="checkbox"/> Major Requirement: BIS 23 Client-Side Programming	ENG 100, ENG 110, or ENG 111 and BIS 13 and KEY 10 or dept. approval	3
<input type="checkbox"/> Major Requirement: CWE 31 Cooperative Work Experience ^{2,7}	BUS 110 or LAW 17, and 30 credits with 2.00 GPA, or dept. permission	2
Subtotal:		16

SEMESTER IV Sophomore

	Prerequisite/Corequisite	
<input type="checkbox"/> Flexible Core A-E: Select ONE course from any Flexible Core A-E ⁸	See catalog ⁸	3
<input type="checkbox"/> Major Requirement: BIS 31 Server-Side Programming	BIS 13 and BUS 110	3
<input type="checkbox"/> Major Requirement: COMM 12 Voice and Diction: Business and Professional Speech	Corequisite: ENG 110, if required	2
<input type="checkbox"/> Major Requirement: DAT 49 Linux Operating System	DAT 30 or dept. approval	3
<input type="checkbox"/> Major Requirement: DAT 51 Web Programming with Python	BIS 13 and DAT 30, or dept. approval	3
Subtotal:		14

TOTAL: 60-61

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☒ Your Job-Ready Checklist!



Workforce Development & Continuing Education

SAGE HALL 202, 718-289-5170

This checklist will keep you on track, so you are prepared for internships and jobs in your major. Contact your career specialist or visit Sage Hall today!

SEMESTER I

- ☐ Attend a Career Development open house (Include Focus 2 overview)
- ☐ Claim Big Interview, Handshake, and Focus2 Accounts
- ☐ Complete Focus 2 Self-Assessments to determine major/career interest
- ☐ Oral & Written Communication Skills Building
- ☐ Ethical Use of AI Workshop
- ☐ Create a GitHub Account
- ☐ Get Microsoft Excel Yellow Belt Certification



SEMESTER II

- ☐ Have an approved resume (Workshop and/or Resume Clinic)
- ☐ Attend an Industry-Related Info Session
- ☐ How to write a cover letter (Workshop)
- ☐ How to answer interview questions (Workshop + Mock Interview & Big Interview)
- ☐ How to Succeed in the World of Work (Workshop)
- ☐ Oral & Written Communication Skills Building
- ☐ Join Business On-Campus STEM Club
- ☐ Complete/publish website project and add to resume
- ☐ Get W3Schools HTML and CSS Developer Certification
- ☐ Get Microsoft Excel Yellow Belt Certification (if not earned in DAT 33)
- ☐ Get Microsoft Sentinel Black Belt Certification
- ☐ Get W3Schools Java Developer Certification



SEMESTER IV

- ☐ Apprenticeship Starts (Spring)
- ☐ Job Search Strategies & Networking Process (Workshop)
- ☐ Interviewing skills mock interview recap
- ☐ Attend Career Fair
- ☐ Explore major-related jobs and internships
- ☐ Get W3Schools Certified PHP and Python Developer
- ☐ Complete/publish website project and add to resume



SEMESTER III

- ☐ Develop a LinkedIn Account with a Professional Headshot (Workshop)
- ☐ Complete a CWE internship: Identify appropriate internships (credit-bearing and paid) and eligibility. Application and required documents revision. Interviewing skills practice through CUNY Interview Prep and Big Interview. Agency clothing service referral.
- ☐ Apprenticeship Info Session & Application (Fall): Identify appropriate internships (credit-bearing and paid) and eligibility. Application and required documents revision. Interviewing skills practice through CUNY Interview Prep and Big Interview. Agency clothing service referral
- ☐ Join Association for Information Systems (AIS)
- ☐ Get W3Schools JavaScript Developer Certification
- ☐ Complete survey for 45+ credits
- ☐ Update your GitHub Account
- ☐ Oral & Written Communication Skills Building



POST GRADUATION

- ☐ Degree Map Completion Analysis
- ☐ Job & Internships Gap Identification
- ☐ Alumni Support Services
- ☐ Placement Data Compliance
- ☐ Success in the Workplace Workshop
- ☐ Explore Bachelor Programs

