



Brooklyn College of the City University of New York

Department of Computer and Information Science

2109 Ingersoll Hall Brooklyn College
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SUMMER AND FALL 2009

TO: All CIS Students
FROM: Aaron Tenenbaum, Chairperson
RE: Summer and Fall 2009 IS Undergraduate Registration

It is highly recommended that majors see a Deputy Chair each semester to plan out their schedule for the next semester.

1. Departmental policy is to enforce prerequisites and to grant waivers only under rare circumstances. If you feel a **prerequisite should be waived**, please see a registration advisor or one of the Deputy Chairs or the instructor of the course **before** you register. The prerequisite of CIS 5.2 that applies to several courses is readily waived if you know computer application tools such as Word, Excel, Access and PowerPoint. Also, if your courses from another school have not yet been evaluated and posted to your transcript, please make sure to come to the department office for advisement and possible waiver of prerequisites. If a course is closed and **you need an overtally**, please fill out an overtally request form in the Department office, Room 2109N.

Note that you must earn a C or higher in all CIS prerequisites to any CIS course. If you earn a C- or below in a prerequisite course, you should take the course over before going on to the next course. However, if you earn below a C in a Math prerequisite for a CIS course, you may still register for the next CIS course, although the Math department may require a minimum grade for registration in a subsequent Math course. (Note also that the C requirement applies only to a *prerequisite*. Thus, for example, you need not repeat CIS 26 if you earn less than a C since CIS 26 is not a prerequisite for another CIS course. Similarly, you need not repeat CIS 20.1 if you earn less than a C unless you want to take CIS 20.2, for which 20.1 is a prerequisite.)

2. **CIS 1.5** (Introduction to Computing with C++) No prerequisite. Not open to students who are enrolled in or have completed CIS 1.10 or 1.20 or 2.80 or 15 or 16. Offered Fall, Spring and in the first summer session.
3. **CIS 15** (Advanced Programming Techniques) Prerequisite of CIS 1.5 Offered Fall and Spring
4. **It is recommended that you take CIS 15 immediately after CIS 1.5.** Students in CIS 1.5 can also register for **CIS 12W** (assuming you have taken English 2).
5. **CIS 15** is required for the major. **CIS 15** teaches advanced programming in C++. It is being given in the first summer session and in the Fall.
6. Students in **CIS 15** should register for **CIS 22**. CIS 22 is scheduled in the first Summer Session and in the Fall. It is important to take CIS 22 as soon as possible after CIS 15 for two reasons: first, you want your knowledge of C++ to be as fresh and thorough as possible when you take CIS 22, and, second, most other CIS courses have CIS 22 as a prerequisite, so taking CIS 22 enables you to take a wide variety of other courses in the future.

7. **CIS 3.2 or BUS 31.5** (Electronic Commerce) is required. It is a survey of practices in doing business online over the Web. The prerequisite is either CC 3.12 or Core 5.1 or CIS 1.0 or CIS 1.5 It is being given in both summer sessions, and in the Fall.
8. **CIS 5.2**, Microcomputers in Business and Administration, teaches the use of word processing (Microsoft Word), spreadsheets (Excel), databases (Access), and presentation software (PowerPoint) on personal computers. **There is no prerequisite for CIS 5.2.** It is a prerequisite for CIS 9.2 and for CIS 45. It is given in both Summer Sessions and in the Fall. If you already know Excel and Access, you should see the Program Director for a prerequisite waiver and a possible substitute course.
5. **CIS 8.3W** (Seminar in Computer-Assisted Management Games, also BUS 80.3W) Improve your business management and communication skills by managing a company in a computer simulated environment. Prerequisite: English 2. Prerequisite or co-requisite: Business 30.2 or Mathematics 8.1 or 51.1; and Business 31.4 or CIS 10.31; and CIS 5.2 or 1.5; and senior standing; and at least 34 credits in IS and/or Business courses
6. **CIS 9.2 or BUS 31.3** (Management Information Systems) surveys how computers are used in large organizations for organizing and retrieving information. The prerequisite is CIS 5.2 and at least sophomore standing (30 credits or more) or permission of the Chair.
7. **CIS 12W** (Computers and Ethics, also PHIL 14.4W). Analysis of legal and ethical issues pertaining to the use of computer technology. Prerequisites of English 2 and one of the following: CC3.12, CIS 1.0, CIS 1.5.
8. **CIS 10.31 or BUS 31.4** (Operations Management) teaches tools to manage the operations of a company using computers. The prerequisite is Core Curriculum 3.12 or CIS 1.5 or 5.2; and one of the following: CIS 11, BUS 30.2, ECO 30.2, MATH 8.1, MATH 51.1
9. **CIS 26** (Object Oriented Programming). Prerequisite: CIS 22. Students can see the Chairperson or Program Director about substituting CIS 20.1 for 26.
10. **CIS 45** (Database Systems) Introduction to database systems with emphasis on designing, storing, processing retrieving, securing, recovering and distributing information stored in relational database systems. Prerequisite: CIS 22; and CIS 5.2 or permission of the chairperson.
11. **BUS 10.1** (Elementary Macroeconomics, also ECO 10.1) Demonstrates how fiscal and monetary policy are used to affect the economy. Also covers topics such as growth, inflation, unemployment, and international trade. Prerequisite CC 3.11 or CORE 5.2 or MATH 2.0 or higher or sophomore status
12. **BUS 20.1** (Elementary Microeconomics, also ECO 20.1) Topics covered include supply and demand, marginal cost, pricing, elasticity, maximization of profit, and allocation of resources under pure competition, monopolistic competition, oligopoly, and monopoly. Prerequisite CC 3.11 or CORE 5.2 or MATH 2.0 or higher or sophomore status
13. **BUS 30.2** (Introduction to Economics & Business Statistics, also ECO 30.2) Using the computer to analyze data. Topics covered include descriptive statistics, inference, correlation, and regression. Prerequisite: 32 or higher on the CUNY Mathematics Skills Assessment Test or a grade of C or higher in CC 3.11 or passing MATH 2.9 or higher
14. **BUS 31.1** (Fundamental Methods of Mathematical Economics, also ECO 31.1) or **MATH 3.3** (Calculus 1) BUS 31.1 covers applications of calculus and matrix algebra to the solution of problems in business and economics. Its prerequisite is BUS/ECO 20.1. MATH 3.3 introduces the mathematics of calculus. Its prerequisite is MATH 2.9 or 2.92.

15. **BUS 50.1** (Introduction to Management). This course covers principles of modern management and functions of the manager. No prerequisite is required.
16. **ACCTG 1** (Introductory Accounting) Introduction to the basic principles of accounting including the understanding of financial statements. No prerequisite is required for this course.
17. **BUS 70.2** (Corporation Financial Management) Topics covered include tools of financial analysis, time value of money, capital budgeting, cost of capital, valuation of stocks and bonds, and the capital asset pricing model. Prerequisite: ACCTG 1
18. The Brooklyn College writing intensive requirement is now fully integrated into the curriculum. **All students who entered or re-entered Brooklyn College in Fall 2001 or later must satisfy this requirement** by completing a writing-intensive course (indicated with a W after the number). You should register for **CIS 12W**, Computers and Ethics. Three sections of CIS 12W are being given in the Fall (day and evening). A section is also being given in the first summer session.
19. **CIS 60.1** or [CIS 88.1](#) is required of all IS majors. They both require department permission for registration. CIS 60.1 requires completion of a major information science project (involving approximately 15 hours/week of work), plus tutoring. Students may find their own project, within or outside the school. Many students use projects at work for their 60.1 project.

Students generally do not take 60.1 before their senior year, but students who present an appropriate project may be given permission before then. Students who are unable to find a project and are seniors will be assigned a project and must arrange their schedule so that they have two complete days a week available for project-related activities.

Students who wish to receive permission to register for CIS 60.1 should see Professor Augenstein, (Room 2122N, x5204, email: augenstein@sci.brooklyn.cuny.edu), or leave a message for him in the department office (Room 2109N, x5657). Students who have already taken CIS 60.1 may take **CIS 60.2** to continue their project or do an additional project.

20. **CIS 88.1** is an honors course that is only open to superior IS majors. It involves doing a research project under the supervision of a senior faculty member. Students need permission from the faculty member and from the Chair of the Department. Faculty members who have sponsored 88.1 projects in the past are Profs. Bar-Noy, Chopra, Dexter, Kopec, Langsam, Parsons, Sklar, Sokol, and Whitlock.
21. **CIS 45** Database Systems (Fall day). Prerequisite: CIS 5.2 and 22. Students who know Access but have not had CIS 5.2 should see a counselor for waiver of the CIS 5.2 prerequisite.
22. Two additional courses from the following list: Advanced electives being offered in the Summer and Fall include (all these courses satisfy the requirement of two courses of advanced CIS electives):
 - a. **CIS 13.2** Advanced Personal Computer Techniques for Business Applications (Fall online). Prerequisite: CIS 1.5 and 5.2. Students who are familiar with PC applications software but who have not taken [CIS 5.2](#) should see a counselor for waiver of the CIS 5.2 prerequisite. Note that you may not take [CIS 3](#) or [CIS 3.1](#) after 13.2, so you may want to take them together, or take one or both before CIS 13.2.
 - b. **CIS 20.1** (Design and Implementation of Software Applications 1) Tools for designing good software application systems. Prerequisite: CIS 15.
 - c. **CIS 20.2** (Design and Implementation of Software Applications 2) Prerequisite: CIS 20.1 and CIS 22.

- d. **CIS 49.2** (Computer Networks) (Fall online). Prerequisites: CIS 22 and CIS 27 or 27.1. Covers the protocols employed to transmit information across computer networks (local and global) and how security is provided at all points. Students who have not taken CIS 27 or 27.1 who wish to take this course should see the chairperson or Program Director.
23. Advanced (senior year) students with good records can also consider taking a **graduate course** offered by the department, as an advanced elective, if they satisfy the prerequisite conditions. This requires the approval of both the department and the Academic Advisement Center. For information, contact Professor Danny Kopec (x5578, email: graddep@sci.brooklyn.cuny.edu).
24. IS students may wish to take **Speech 23**, Interpersonal Communication for Business. This elective will help your career in information systems.

For **counseling** or **additional information** or **department permission** or **waiver of prerequisites**, see Prof. Rudowsky before May 17 according to the following schedule. After May 17, contact 718-951-5657 or cis@sci.brooklyn.cuny.edu:

PROFESSOR IRA RUDOWSKY – 718 951-5000 x2062

Email: rudowsky@brooklyn.cuny.edu Room 3208N

Monday 1:00PM – 2:00 PM

Wednesday 1:00PM – 2:00 PM

