GETTING STARTED IN COMPUTER SCIENCE @ MASON 2016 - 2017

MATERIALS

CATALOG:

This is the official record of policies and degree requirements. You can graduate under the rules of any Catalog that is in force when you are a student (but not a combination of catalogs).

http://catalog.gmu.edu

BS CS BROCHURE:

This departmental document shows all the requirements by category. Many students find it useful as a planning tool. (It does not replace the catalog.) It includes:

- Sample Schedule: The sample satisfies all prerequisites and shows one way to spread out the required courses over eight semesters.
 However, it is only a sample. It is typically more useful for first-year students than transfer students.
- **Natural Science:** The brochure presents the recommended courses for the lab sequence.
- CS-Related Electives: The brochure includes a list of the courses for this requirement, which includes advanced CS electives.

BS ACS BROCHURES:

These departmental documents summarize the requirements and sample schedules for the different concentrations. All share a common **CS foundation** and require additional classes for each concentration.

DEGREE EVALUATION PROGRESS REPORT:

This is a record of the courses you have received credit for and gives a detailed account of what courses you still need to take to complete the requirements for your degree. It is available on PatriotWeb. It should be printed out and brought with you anytime that you come for advising.

http://patriotweb.gmu.edu

CURRICULUM OVERVIEW

MASON CORE [MC] REQUIREMENTS

8 courses in English and the Humanities (**BS CS**) Varies for **BS ACS** depending on concentration

BS CS REQUIREMENTS

17 CS courses; 6 in mathematics 3-4 courses in natural science (w/lab sequence) 1 ECE; 2 CS-related (see brochure) 1 extra Humanities requirement beyond MC

CHOOSING INITIAL CS COURSES [ACS & CS]

- **101:** This is a preview of the ACS and CS majors. It is a 2-credit course. You must take CS 112 at the same time, or have already taken CS 112.
- **105:** This 1-credit course on Computer Ethics and Society is required of all ACS and CS majors.
- 112: This is the initial programming course for all majors. It will teach you the important analytic steps that precede and underlie good programs. The prerequisite is calculus-readiness, i.e. placing into MATH 113.
- **211:** This sequel to CS 112 emphasizes the object-oriented approach to program design. It is taught using Java.

UPPER DIVISION: Transfer students must be careful to accumulate a total of 45 credits in courses numbered 300 and above.

NOTE: Even if a Lower Division course from another school transfers to an Upper Division GMU course, it still does *not* count toward this requirement.

NOTE: Even if you are waived from a required upper division GMU course (i.e., it is not for credit), it does *not* count toward this requirement.

NOVA (VCCS) EQUIVALENTS

CSC 201, 202 transfer to Mason as CS 112, 211. See the sample schedule for transfer students having VCCS/NOVA Associates degrees on the CS website (Student FAQs.)

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GET CREDIT FOR WHAT YOU KNOW

MATH PLACEMENT TEST

Math Dept. (4400 Exploratory Hall) 703-993-1460 (http://math.gmu.edu)

ENGLISH 101/302 PROFICIENCY EXAMS

English Dept. (A487 Robinson Hall) 703-993-1160 (http://composition.gmu.edu)

AP TEST IN COMPUTER SCIENCE

- Computer Science A with a score of 3, 4 or 5
 You get credit for CS 112.
- Computer Science AB with a score of 4 or 5
 You get credit for CS 112 and CS 211.
- Computer Science AB with a score of 3 You get credit for CS 112

IB TEST IN COMPUTER SCIENCE

- Computing Science HL with a score of 4 You get credit for CS 112.
- Computing Science HL with a score of 5, 6 or 7 You get credit for CS 112 and CS 211.

MATH PLACEMENT RESULTS

One possible outcome is placement into Calculus I (MATH 113). In this case, you **are also qualified** to take CS 112. This is because many of the same problem-solving and symbol-handling capabilities are needed for both mathematics and computer science.

Other possible outcomes are placement into MATH 104 or MATH 105 that will prepare you for both CS and calculus. In this case, you **do not qualify** for CS 112 – you should focus on learning the material in these math classes before signing up for CS 112 and MATH 113.

Still another possible math placement test outcome is having to take the test again. Remedial material is provided in this case.

ACADEMIC INFORMATION

CS DEPARTMENT (4300 Nguyen Engr. Bldg.)

- 703-993-1530
- Email: csadmin@cs.gmu.edu
- Undergrad Administrative Advisor can help

USEFUL WEB SITES

- http://cs.gmu.edu
 (CS Department & Student FAQs)
- http://volgenau.gmu.edu
 (Volgenau School of Engineering)
- http://www.gmu.edu (University)
- http://cos.gmu.edu (College of Science)
- http://admissions.gmu.edu (Course equivalency info for transfers)
- http://registrar.gmu.edu (Academic calendars and forms)

STUDENT SERVICES INFORMATION

CAREER SERVICES... has information on job types and openings; conducts trips to high-tech firms; can help you put a good resume on-line. SUB-I-3400 http://careers.gmu.edu 993-2370

LEARNING SERVICES... can help with your academic life. http://caps.gmu.edu/learning-services 993-2380

ACADEMIC ADVISING...can discuss other majors with you. http://advising.gmu.edu 993-2470

COUNSELING SERVICES...can help with your personal life. http://caps.gmu.edu 993-2380

FREQUENTLY ASKED QUESTIONS

- · What computers does GMU have?
 - See http://doit.gmu.edu/
- · What computer should I buy?

No computer is required; however, you can look under "Student FAQs" on http://cs.gmu.edu for recommendations

· What is a good extra-curricular activity?

See http://cs.gmu.edu Look under Student Organizations

· What is "VSE"?
GMU's Volgenau School of Engineering.

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