**Common Questions:**

1. **What is this document about?** The DePauw faculty has approved the Computer Science Department’s request to revise the requirements for the Computer Science Major and the Computer Science Minor. The new requirements are effective for students who enter DePauw in fall 2009 or later. This document answers questions about the new major and minor, especially for students who are enrolled at DePauw prior to fall 2009.

2. **What requirements do I complete, if I entered DePauw before fall 2009?** Students who entered DePauw prior to fall 2009 may choose to satisfy either the old requirements or the new requirements. However, because course numbers and names have changed, satisfying the old requirements will require a few substitutions. The remainder of this document contains information that will help you understand how you can satisfy the old requirements using the new course names and numbers.

3. The old "Computer Science Two (CSC122) Course" is no longer offered. If I need it to complete the old requirements, what course should I take? Take CSC122 under its new name (it is now called "Introduction to Data Structures"). If you have already completed the "old" CSC122 you may not take the new CSC122.

4. The old "Data Structures (CSC222) Course" is no longer offered. If I need it to complete the old requirements, what course should I take? Take the new CSC232 ("Software Development") course. If you already have credit in CSC222 you may enroll in CSC232 for course credit, but the course will not count toward the major.

5. The old "Computer Organization (CSC221) Course" is no longer offered. If I need it to complete the old requirements, what course should I take? Take the new CSC231 ("Computing Systems") course. Note that you may not earn credit for CSC231 if you already have credit in CSC221.

6. I have not yet taken both Discrete Mathematics courses. What is the best way to fulfill these requirements given the changed curriculum? You may still take MATH123 and MATH223 to satisfy these requirements. However, you may be able to take the new CSC233 (Foundations of Computation) in place of MATH123 or MATH223 in some circumstances. This new CSC233 course will cover mathematical concepts in the context of Computer Science. To determine if you can/should substitute CSC233 for one of the MATH courses consider the following:

   - Students who are enrolled in CSC121 or CSC122 as of spring 2009 or later are encouraged to make this substitution.
   - Students who have already taken more advanced course work in the department will only be allowed to make this substitution in some cases (based on the specific course work completed).
   - In general, the more advanced course work you have had, the less likely the substitution will be possible. This is because the material to be covered in the Foundations of Computation course was previously covered in course work that you may have already completed. Consult your advisor, who will consult the department, about this.
7. Some of the upper level courses have been re-numbered. How do I know which ones can be used to satisfy the requirements for the old major? If you are completing the old major you still need to take Senior Project (CSC498) plus three more courses at the 300 or 400 level. In the old requirements at least one of these courses had to come from the list of courses that were offered at the 400 level (Compilers, Operating Systems, Programming Languages, or Networking.) In the new requirements a slightly different set of courses is offered at the 400 level. Most notably, Networking is now offered at the 300 level and the course "Databases and File Systems" as well as the course "Theory of Computation" have been promoted to the 400 level. In addition, we will be phasing in a new course called "Algorithms" and it will be at the 400 level (although it may be a few years before we offer it for the first time).

If you entered DePauw prior to 2009 you may take any of the old or new 400 level courses to meet the 400 level course requirement. The complete set of courses is listed here:

- Networking (CS322, previously CSC422)
- Operating Systems (CSC428)
- Programming Languages (CSC424)
- Compilers (CSC426)
- Databases and File Systems (CSC480, previously CSC381)
- Theory of Computation (CSC440, previously CSC341)
- Algorithms (to be added in the next few years)

It bears repeating that for students who entered DePauw prior to fall 2009, any of these courses can be used to satisfy your 400-level requirement regardless of whether the course is numbered at the 300 level or the 400-level when you actually take it.

8. Are any other new courses being added to the curriculum? In addition to the algorithms course noted above, we have plans to offer at least two new courses. We will be offering a Web and Cybersecurity course for the first time in Spring 2010. We will be offering a Robotics course for the first time during the 2010-2011 academic year. While no other new courses have been approved by the department it is possible that new topics courses will be introduced in the future.

9. I realize I can still complete the old minor requirements, but I am interested in understanding the new minor requirements. Can you summarize them for me? The new minor requirements are as follows:

- Requirements: Computer Science One (CSC121), Introduction to Data Structures (CSC122), at least two courses from the group Computer Systems (CSC231), Software Development (CSC232), Foundations of Computation (CSC233) and at least one course at the 300 or 400 level.
10. I realize I can still complete the old major requirements, but I am interested in understanding the new major requirements. Can you summarize them for me? The new major requirements are as follows:

- Core Requirements: Computer Science One (CSC121), Introduction to Data Structures (CSC122), Computational Discrete Math (MATH123), Computer Systems (CSC231), Software Development (CSC232), Foundations of Computation (CSC233), Senior Project (CSC498).
- Electives: Four additional courses at the 300 or 400 level with at least one at the 400 level. With the approval of the advisor one of the 300 level courses may be replaced by an allied course from another department. The department will maintain a list of such courses and may alter the list over time.
- Substitutions: MATH223 may be substituted for MATH123 with permission of the advisor.
- Notes: Students are encouraged to complete an internship or research experience related to the major. This is not a requirement, however, and no departmental credit is awarded for these experiences. We will also offer guidance on selection of courses in and out of the department for students who may be interested in focusing on particular areas related to computer science.

11. What do the prerequisites look like for the new major? The new prerequisite structure looks like this:

\[ (*) \text{ Senior standing and completion of at least one 300 or 400 level elective required. } \]

12. I still have questions. What should I do? If you have an advisor in the Computer Science Department talk to him or her. Otherwise, talk to any of the Computer Science Department faculty members.