

Fundamentals of Programming, Certificate

Learn more about the undergraduate certificate in Fundamentals of Programming.

This certificate is appropriate for anyone interested in adding technology to their existing studies. Computer Science, Information Science and Technology, Math and Computer Science, or Math and Computer Science with Teaching majors cannot get this certificate. The certificate provides knowledge and skills in two programming languages as well as database knowledge.

Undergraduate Contact Information:

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Certificate Requirements

This certificate program is not open to Computer Science, Information Science and Technology, Math and Computer Science, or Math and Computer Science with Teaching majors. Students desiring a certificate in Fundamentals of Programming are required to satisfy the following:

| Code | Title | Credit Hours |
|---------------------------|--|--------------|
| CIS 1051 or CIS 1057 | Introduction to Problem Solving and Programming in Python Computer Programming in C | 4 |
| CIS 1068 or CIS 1968 | Program Design and Abstraction Honors Program Design and Abstraction | 4 |
| CIS 2109 | Database Management Systems | 4 |
| Total Credit Hours | | 12 |

- If a student has taken CIS 1068 and CIS 2168, CIS 2168 should be substituted for CIS 1051/CIS 1057 to prevent backtracking.
- Additional courses needed to complete a CS minor are CIS 1166, CIS 2107, CIS 2168, and one CS elective.
- Additional courses needed to complete an IS&T minor are any two of CIS 1166, CIS 2168, CIS 2229 or a CIS 3xxx class approved by the IS&T Advisor.

Residency Requirements: At least 2 courses required for the certificate must be completed at Temple. At least 2 CIS courses must be completed at Temple.