

# PYTHON LANGUAGE PROFICIENCY, CERTIFICATE

The **Python Language Proficiency Certificate** provides students with core competencies in the use of the Python Programming Language. Students are required to complete coursework that includes basic and advanced concepts in Python language programming, computer information systems, data structure application, Python standard library applications, Data science, and programming logic and design.

For more information about Computer and Information Science, please visit the program of study page (<http://www.cod.edu/cis/>).

## Certificate Requirements

**Field of Study Code: CIS.CER.PYTHON**

Code	Title	Credits
CIS 1400	Programming Logic and Technique	4
CIS 2531	Introduction to Python Programming	4
CIS 2532	Advanced Python Programming	4
Total Credits		12

This page lists programs related to one another.

- Application and Technical Support Specialist, A.A.S. (<https://catalog.cod.edu/programs-study/computer-information-science/application-technical-support-specialist-aas/>)
- Business Productivity Software, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/business-productivity-software-certificate/>)
- C++ Language Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/c-language-proficiency-certificate/>)
- Database Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/database-proficiency-certificate/>)
- Enterprise Database Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/enterprise-database-proficiency-certificate/>)
- Game Animation and Design, A.A.S. (<https://catalog.cod.edu/programs-study/computer-information-science/game-animation-design-aas/>)
- Game Design and Development, A.A.S. (<https://catalog.cod.edu/programs-study/computer-information-science/game-design-development-aas/>)
- Game Design and Development, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/game-design-development-certificate/>)
- Game Programming and Development, A.A.S. (<https://catalog.cod.edu/programs-study/computer-information-science/game-programming-development-aas/>)
- Game Programming and Development, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/game-programming-development-certificate/>)
- iPhone/iPad Developer Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/iphone-ipad-developer-proficiency-certificate/>)
- JAVA Language Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/java-language-proficiency-certificate/>)
- LINUX, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/linux-certificate/>)
- Software Development, A.A.S. (<https://catalog.cod.edu/programs-study/computer-information-science/software-development-aas/>)
- Spreadsheet Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/spreadsheet-proficiency-certificate/>)
- UNIX Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/unix-proficiency-certificate/>)
- Visual BASIC Language Proficiency, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/visual-basic-language-proficiency-certificate/>)
- Web Client Developer, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/web-client-developer-certificate/>)
- Web Programmer, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/web-programmer-certificate/>)
- Windows Network Administration, Certificate (<https://catalog.cod.edu/programs-study/computer-information-science/windows-network-administration-certificate/>)