Software products are the "brains" behind everything your computer can do. If you're interested in learning how to help make computers "smarter" and even more essential to everyday life, our **Advanced Software Developer Certificate** can help you get started in this field—and prepare you for related certifications along the way.

### Objectives
The Advanced Software Developer Certificate concentrates on principles of software application development. This certificate explores modern software development though the use of multiple modern application programming languages as well as mobile programming and software architecture principles. This program helps preparation for industry certifications such as the C++ Certified Professional Programmer, Oracle Certified Professional JAVA SE Associate and Professional Programmer (OCP) and Microsoft C# and VB certifications.

### Requirements and Prerequisites
Advanced Software Developer Certificate (Undergraduate) requires a minimum of **18** credits, which may come from a combination of required and elective courses.

### Core Courses
- **Intro To Software Engineering** (BSA385)
- **Software Architecture** (CSS422)
- **Mobile Fundamentals** (MBL400)
- **Android Mobile Development** (MBL402)
- **Android Mobile Implementation** (MBL404)
- **iOS Mobile Development** (MBL406)
- **iOS Mobile Implementation** (MBL408)
- **Windows Mobile Development** (MBL410)
- **Windows Mobile Implementation** (MBL412)
- **.NET I** (POS408)
- **.NET II** (POS409)
- **C++programming I** (PRG410)
- **Java Programming I** (PRG420)
- **Java Programming II** (PRG421)
- **Web Design With Dreamweaver®** (VCT340)
Make an informed choice

We believe that students and families should be prepared financially for college and understand gainful employment opportunities before starting any program. So we want to ensure you have the information you need to make an informed choice - information like what it will cost, the skills you'll learn through your chosen program, and the types of occupations the program prepares you for. For important information about the educational debt, earnings, and completion rates of students who attended this program:

To view gainful employment disclosures, please visit:

View the Advanced Software Developer Certificate (Undergraduate) gainful employment disclosures [http://www.phoenix.edu/programs/ge/default/cert-asd.html]

While widely available, not all programs are available in all locations or in both online and on-campus formats. Please check with a University Enrollment Representative.