

# GRADUATE CERTIFICATE PROGRAMS

Applicants interested in earning a Certificate in Software Engineering and those interested in taking selected courses from the Software Engineering curriculum may be admitted on a non-matriculating basis to the School of Engineering as special-status students. Non-matriculated students must have a Bachelor degree from an accredited university and a minimum of three years experience as a professional software developer or programmer, and academic and professional records that suggest the likelihood of success in demanding graduate courses. Non-matriculated students are admitted to courses on a seating-available basis only. Matriculated students are given preference for course offerings, especially for required and core courses.

SW 0512	Web Development II with ASP.NET
SW 0516	PHP/MySQL
SW 0530	Introduction to Information Security
<b>Group 2</b>	
SW 0406	Web Client Side Development I
SW 0409	Advanced Programming in Java
SW 0410	Enterprise Java
SW 0416	Mobile Application Development
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Total Credits	12

## Database Management Certificate

Code	Title	Credits
SW 0505	Advanced Database Concepts	3
SW 0508	Data Warehouse Systems	3
SW 0518	Data Mining and Business Intelligence	3
SW 0530	Introduction to Information Security	3
or SW 0531	Applications and Data Security	
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Total Credits		12

## Information Security Certificate

Code	Title	Credits
SW 0404	Network Concepts	3
SW 0530	Introduction to Information Security	3
SW 0531	Applications and Data Security	3
SW 0599	Information Security Measures and Countermeasures	3
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Total Credits		12

## Network Technology Certificate

Code	Title	Credits
SW 0404	Network Concepts	3
SW 0448	Server Management	3
SW 0596	Network Routing and Switching	3
SW 0599	Information Security Measures and Countermeasures	3
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Total Credits		12

**Note:** The sequence of courses SW 0404 and SW 0596 provides students with the course materials needed to prepare for and take Cisco Certified Networking Associate (CCNA) examination. These students are provided with the opportunity for a voucher to partially cover the cost of that certification test.

## Web Application Development Certificate

Code	Title	Credits
Select one of the following groups:		12
<b>Group 1</b>		
SW 0406	Web Client Side Development I	