

# Software Engineering Certificate

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## Department Information

- **Department Web Site:**  
<http://ndsu.edu/cs/>
- **Credential Offered:**  
Certificate
- **English Proficiency Requirements:**  
TOEFL ibt 79; IELTS 6.5; Duolingo 105
- **Program Overview:**  
<https://www.ndsu.edu/programs/graduate/software-engineering-software-and-security-engineering>

**Apply Now ([https://ndsugrad.my.site.com/Application/TX\\_SiteLogin/?startURL=/Application/TargetX\\_Portal\\_\\_PB](https://ndsugrad.my.site.com/Application/TX_SiteLogin/?startURL=/Application/TargetX_Portal__PB))**

Code	Title	Credits
CSCI 713	Software Development Processes	3
Select two of the following:		6
CSCI 714	Software Project Planning and Estimation	
CSCI 715	Software Requirements Definition and Analysis	
CSCI 716	Software Design	
CSCI 717	Software Construction	
CSCI 718	Software Testing and Debugging	
CSCI 848	Empirical Methods in Software Engineering	3
<b>Total Credits</b>		<b>12</b>

## Admission and Application Requirements

Graduate School admission and application requirements are found on the Admission Information (<http://catalog.ndsu.edu/graduate/admission-information/>) page. In addition to these requirements, the following are required:

- 12 semester hours or equivalent of Computer Science or Software Engineering courses from an educational institution of recognized standing, or at least one year full-time professional software engineering experience
- Programming skill in a modern higher level programming language, preferably C++, C#, or Java
- A 3.0 (on a 4.0 scale) GPA in previous coursework. Conditional admission may be given with a 2.85 or higher GPA and professional experience.