

TECHNICAL MATHEMATICS, CERTIFICATE

Certificate in Technical Mathematics (203001C)

This certificate is aimed at developing technical mathematics knowledge and the ability to apply this knowledge in an industrial setting.

Program Contact

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The following information has official approval of **The Buchtel College of Arts & Sciences**, but is intended only as a guide. Completion of this certificate is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.

The following courses constitute a "Certificate in Technical Mathematics" and must be completed with a minimum grade point average of 2.5 overall for the certificate to be noted on the student's record. The granting of this certificate does not require the completion of a degree. However, coursework can be applied to an A.A.S. degree or to B.S. degrees in Engineering Technology, CIS-Digital Forensics, or CIS-Cybersecurity. At least 6 of the 11 credit hours must be taken through the College of Applied Science and Technology.

Summary

Code	Title	Hours
Core Courses		8-9
Electives		3-2
Total Hours		11

Core Courses

Code	Title	Hours
Complete 8-9 credits from the following:		8-9
2030:154	Technical Mathematics IV	
2030:216	Applied Finite Mathematics	
2030:255	Technical Calculus I	
2030:356	Technical Calculus II	
2030:361	Applied Cryptography	
2030:461	Applied Cryptanalysis	
2030:480	Advanced Topics in Technical Mathematics	
Total Hours		8-9

Electives

Code	Title	Hours
Complete 2-3 credit hours of the following: ¹		3-2
2030:216	Applied Finite Mathematics	
2030:260	Advanced Trigonometry	
2030:345	Technical Data Analysis	

2030:361	Applied Cryptography	
2030:461	Applied Cryptanalysis	
2030:480	Advanced Topics in Technical Mathematics	
2030:290	Special Topics: Associate Studies Mathematics	
3450:xxx	200/300/400 Level mathematics courses approved by the Technical Mathematics faculty of the Dept. of Applied General and Technical Studies	
Total Hours		3-2

- ¹ If only 8 credits are taken from the core course list, then 3 credits must be taken from the electives in order to meet the minimum 11 credit requirement for the certificate.