



# Secondary Education MATHEMATICS Certification

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Students interested in teaching middle and/or high school mathematics should pursue the Associate in Arts and Sciences (AAS) Degree. Students may complete at Tacoma Community College (TCC) the first two years of a Bachelors' Degree leading to Secondary Education Mathematics Certification. This TCC program is designed for students who plan to transfer to major in mathematics with an emphasis on education at four-year colleges or universities. Upon successful completion of this program, students may be able to transfer to the University of Washington Tacoma as juniors. The field of teacher education is undergoing changes and will continue to change in the near future. Teacher education candidates should keep in close contact with the transfer university so that they may be aware of changes. Most universities require a fifth year or Master's degree for secondary mathematics teacher certification.

**Degree:** Associate in Arts and Sciences (Option A)

**Preparation:** While in high school, students should pursue all the available courses in mathematics.

**Program Planning:** Students should meet with an advisor as soon as they are admitted to TCC. Many courses have prerequisites, are offered only once or twice a year, and are sequential. Careful selection of classes each quarter is necessary to complete the program without delay.

Although members of the math department make every effort to consult with various colleges and universities regarding requirements, students are encouraged to consult catalogs, websites and advisors at their chosen transfer university. During their first year at TCC, students should consult the transfer advisor and the Education Program advisor at the University of Washington Tacoma (UWT) or other transfer university. There may be additional admissions requirements, such as foreign language courses. While this AAS degree does not guarantee admission, completion of the program is a criterion for acceptance by many colleges and universities. Additional transfer requirements may exist at specific universities.

	<b>First Year</b>	
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
MATH& 151	MATH& 152	<sup>5</sup> MATH& 153
ENGL& 101	CMST 110	PSYC& 100
EDUC& 205	CS 142	EDUC 220
PE Activity	PE Activity	PE Activity
	<b>Second Year</b>	
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
<sup>5</sup> MATH& 254	ENGL& 102	Humanities Elective (not CMST)
<sup>3</sup> Natural Sciences Distribution (lab)	<sup>3</sup> Natural Sciences Distribution (lab)	<sup>3</sup> Natural Sciences Distribution
CMST& 220	PSYC& 200	ANTH& 206

- Some students may need to take additional prerequisite courses.
- Students are required to pass the Washington Educator Skills Test Basic (**WEST-B**) or alternative before admissions to most teacher preparation programs. More information including test dates, registration, costs, assessment alternatives and study guides can be found at <http://www.west.nesinc.com/>
- Grade point average requirements for application into teacher education programs vary from **2.50 to 3.0**, students should check with the transfer university.
- Current information about teacher education can be found at [www.teachwa.org](http://www.teachwa.org)

## Secondary Mathematics Education Planning Sheet: TCC to UWT Transfer

TCC Course Requirements	Credits Completed	Quarter Taken	Grade	UWT Course Equivalents [Ed] Education Minor [M] Math Major
<b>Basic Requirements 15 credits</b>				
<i>Written Communication Skills (10 credits)</i>				[C]
ENGL& 101 (5) English Composition I				ENGL 131 [Ed] Writing Intense Skills Course
ENGL& 102 (5) Composition II: Argument and Persuasion				ENGL 182 [Ed] Writing Intense Skills Course
<i>Quantitative Skills (5 credits)</i>				[M]
<sup>1</sup> MATH& 151 (5) Calculus I				TMATH 124
<b>Distribution Requirements 60 Credits</b>				
<i>Humanities (15 credits)</i>				[VLPA]
<sup>2</sup> CMST 110 (5) Multicultural Communications				COM 1XX
CMST& 220 (5) Public Speaking				COM 220
Humanities course other than CMST				
<i>Social Sciences (15 credits)</i>				[I&S]
ANTH& 206 (5) Cultural Anthropology				ANTH 202
PSYC& 100 (5) General Psychology				TPSYCH 101
PSYC& 200 (5) Lifespan Psychology				TPSYCH 220 [Ed]
<i>Natural Sciences (15 credits)<sup>3</sup></i>				[NW]
Biology OR				
Chemistry OR				
Physics				
<i>Multicultural (5 credits)</i>				
<sup>4</sup> EDUC 220 (5) Diversity in Education				
<i>Physical Education (3 credits)</i>				
PE Activity course				
<i>Distribution Electives (7 credits)</i>				
MATH& 152 (5) Calculus II				TMATH 125 [M]
<sup>5</sup> MATH& 153 (5) Calculus III				TMATH 126/324 [M]
<b>Other College-Level Electives 15 Credits</b>				
<sup>5</sup> MATH 254 (5) Calculus IV				TMATH 126/324 [M]
CS 142 (5) Java Programming for Engineers and Scientists				TCSS 142 [NW] [M]
<sup>4</sup> EDUC& 205 (5) Introduction to Education (w/field experience)				
<b>Total Credits Earned<sup>6</sup></b>	<b>93</b>			
MATH 220 (5) <sup>6</sup> Linear Algebra				TMATH 308 [M]
MATH 238 (5) <sup>6</sup> Elements of Differential Equations				TMATH 307 [M]

<sup>1</sup>See advisor for prerequisites

<sup>2</sup>Limited offerings

<sup>3</sup>Must include at least two disciplines and two laboratory sciences

<sup>4</sup>Recommended but not required (UWT Teacher Certification Program Admission Requirement - Documentation of Classroom Experience)

<sup>5</sup>MATH& 153 and MATH 254 must be completed in sequence

<sup>6</sup>Additional credits (over 90) may be allowed but request must be made to UWT. Check with UWT advisor.