

Associate in Arts & Sciences – Direct Transfer (DTA)

GENERAL INFORMATION

You may be considering a major in mathematics. If so, this curriculum guide is for you. It focuses on first- and second-year degree requirements which serve as preparation for majoring in mathematics at a four-year college or university.

In electing to major in mathematics, you are choosing one of the oldest and most fundamental of disciplines, yet one which is dynamic and rapidly growing in reaction to developments in technology, physical and biological sciences, and social sciences.

Mathematics majors at universities have a number of options from which to choose. Included are Actuarial Sciences, Applied Statistics, Computational Mathematics, Mathematical Modeling/Applied Analysis, Operations Research, Secondary Teaching of Mathematics, and Theoretical Mathematics.

Everett Community College offers the following degree path leading to a university major in mathematics:

The Associate in Arts and Sciences – Direct Transfer Agreement (“DTA”) meets guidelines for direct transfer to most colleges and universities in Washington, as well as the major public universities in Oregon. The degree enables the student to complete most or all of the general distribution requirements in Quantitative Skills, English, Humanities, Social Sciences and Natural Sciences, and to begin the major course of study in mathematics.

Please review the checklist inside this guide. It outlines the requirements for the AAS – DTA degree with special recommendations for math majors.

Students who enjoy and excel in math should also review these related fields: Astronomy, Business, Computer Science, Education, Engineering, Operations Research, Physics, and Statistics.

CAREER OPTIONS

Options for mathematics majors are many, and often lead to well-paid and interesting careers in business, industry, or the sciences. For example, the insurance and financial securities industries employ actuaries to perform research, planning and forecasting. Applied statisticians work with data collected by other investigators and provide analysis within a variety of contexts. Many employment opportunities in the computer sciences rely on an extensive knowledge of mathematics. Teaching at the secondary or college level requires an extensive math background.

“The median annual wage for mathematicians was \$111,110 in May 2015. The lowest 10 percent earned less than \$56,200, and the top 10 percent earned more than \$167,250. Employment of mathematicians is projected to grow 21 percent from 2014 to 2024, much faster than the average for all occupations. The amount of digitally stored data will increase over the next decade as more people and companies conduct business online and use social media, smartphones, and other mobile devices. As a result, businesses will increasingly need mathematicians to analyze the large amount of information and data collected. Analyses will help companies improve their business processes, design and develop new products, and even advertise products to potential customers. Mathematicians will also be needed to help information security analysts create data-security systems to protect the confidentiality and personal information of individuals.” (Source: *Occupational Outlook Handbook*, <http://www.bls.gov/ooh/math/mathematicians.htm#tab-5>), Bureau of Labor Statistics, July 2016).

SUGGESTED PREPARATION

A strong program of high school study in math and science is very helpful, so that college level courses in these subjects can be immediately pursued. Additionally, writing and communication skills are important. All new students registering in more than 7 credits and/or registering in English and Math courses must complete EvCC’s skills assessment exams which provide recommendations for appropriate course placement based on skill levels.

For specific requirements in your area of interest at the college or university to which you wish to transfer, it is strongly recommended that you contact an EvCC math advisor, listed below, and contact the transfer institution.

GETTING STARTED AT EVCC

Enrollment Services provides information about application, advising, orientation and registration for new and continuing students. New degree seeking students must complete entry advising prior to registering for first quarter classes. Contact:

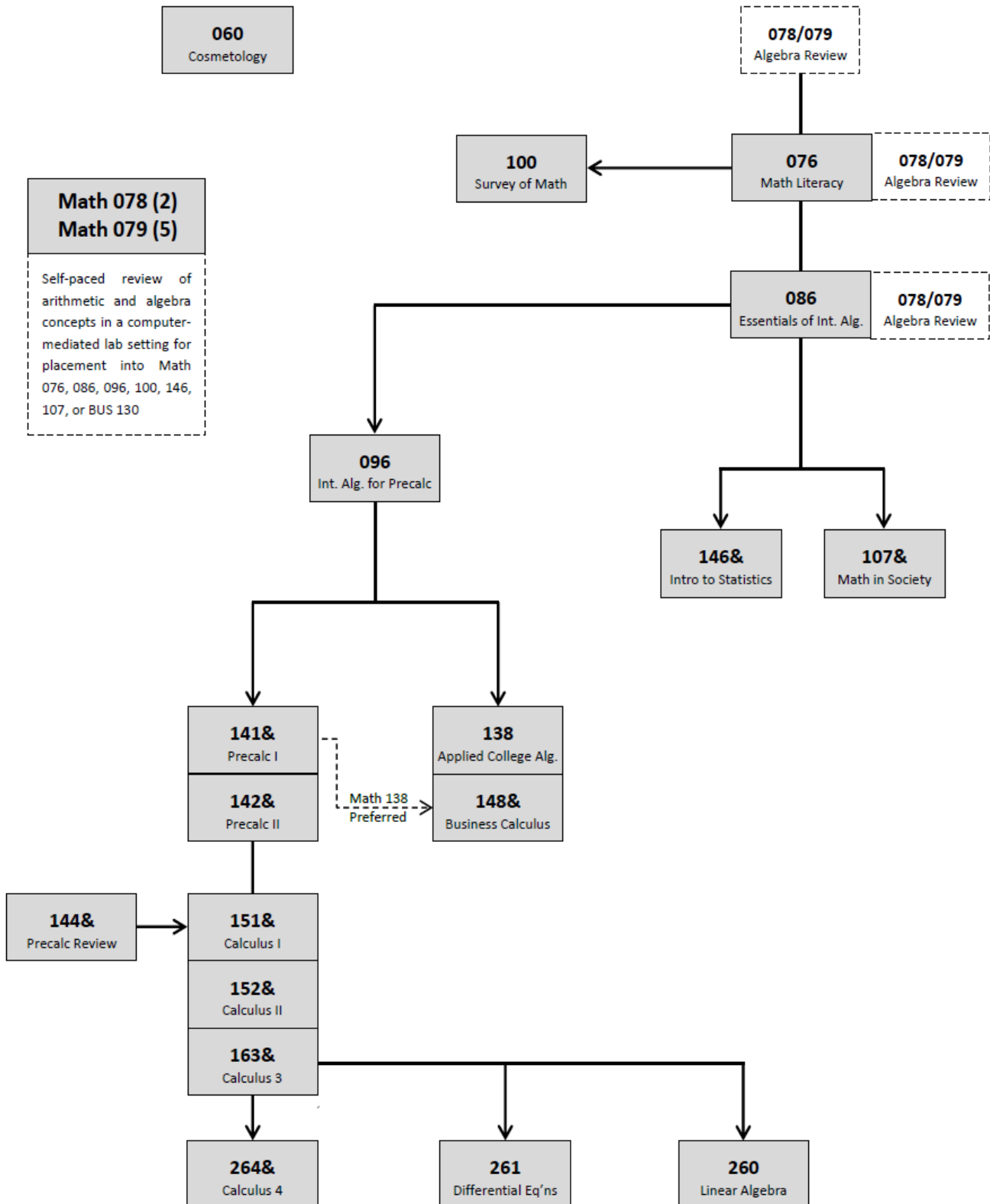
- ◆ Enrollment Services, Parks 201, 425-388-9219, admissions@everettcc.edu
- ◆ Advising Center, Rainier Hall, Room 108, 425-388-9339

Approved by Instructional Council March 2017. DTA checklist effective January 2017. Non-degree checklist/clerical updates December 2019.

PROGRAM ADVISORS

It is helpful to consult with university advisors, as well as EvCC advisors. Please contact one of these EvCC advisors to help you select which degree pathway to follow, and to map out your program of study. (The area code is 425.)

| | | | |
|---------------|--|-------------------|---|
| Kevin Bolan | Rainier 340, 388-9368, kbolan@everettcc.edu | Chris Killingstad | Rainier 341, 388-9475, ckillingstad@everettcc.edu |
| Andrea Cahan | Rainier 337, 388-9075, acahan@everettcc.edu | Michael Nevins | Rainier 342, 388-9363, mnevins@everettcc.edu |
| Wendy Houston | Waterfront 210, 267-0152, whouston@everettcc.edu | Mike Story | Rainier 347, 388-9590, mstory@everettcc.edu |
| Alys Hugo | Rainier 346, 388-9393 ahugo@everettcc.edu | Heidi Weiss-Green | Rainier 339, 388-9252, hweiss@everettcc.edu |
| | | Sharon Wellman | Rainier 329, 388-9964 x7372, swellman@everettcc.edu |



Associate in Arts and Sciences - DTA

This checklist is targeted at transfer students with an interest in pursuing a **MATHEMATICS** degree at a four-year institution. It should be maintained by the student while at Everett Community College. The quarter before expected completion, this checklist should be submitted with a diploma application to the Enrollment Services Office. This checklist refers to requirements listed in the curriculum guide titled "Associate in Arts and Sciences – DTA", which lists all the courses which are approved for the various categories of requirements. Note: Though courses in a foreign language are not required in the DTA degree, some universities may require two or three quarters of foreign language for admission or for graduation. Courses listed with an ampersand in the course number (e.g. ENGL&101) reflect the Common Course Numbering System. For more information, go to www.everettcc.edu/ccn

Student Name: _____ Advisor Signature: _____ Date: _____

COMPLETION of [College Success Course](#)

| | | |
|------------------------------|----------------|-------|
| Where completed/Course Title | Year Completed | Grade |
|------------------------------|----------------|-------|

COMPLETION of Diversity Course
(Recommend DRMA 107D)

| | | |
|------------------------------|----------------|-------|
| Where completed/Course Title | Year Completed | Grade |
|------------------------------|----------------|-------|

| Course Number | Course Title | Credits | Quarter Completed | Grade |
|---------------|--------------|---------|-------------------|-------|
|---------------|--------------|---------|-------------------|-------|

BASIC COMMUNICATIONS SKILLS (Minimum 10 credits, at least 5 credits in English Composition, selected from [Communications Skills on the AAS – DTA list.](#))

| | | | | |
|-----------|---------------------|---|--|--|
| ENGL& 101 | English Composition | 5 | | |
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BASIC QUANTITATIVE SKILLS (5 credits, see list of approved courses in [Quantitative Skills on the AAS-DTA list.](#))

| | | | | |
|-----------|------------|---|--|--|
| MATH& 151 | Calculus I | 5 | | |
|-----------|------------|---|--|--|

HUMANITIES (15 credits from the [AAS-DTA approved Humanities List](#), in at least three different disciplines; No more than 5 credits from foreign languages and performance skills.)

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SOCIAL SCIENCE (15 credits from the [AAS-DTA approved Social Sciences List](#), in at least three different disciplines.)

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NATURAL SCIENCE (15 credits from the [AAS-DTA approved Natural Sciences List](#), in at least three different disciplines.)

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|-----------------------------------|-------------|---|--|--|
| Course from Part A (Lab) | | | | |
| Course from Part A or B (Non-Lab) | | | | |
| MATH& 152 | Calculus II | 5 | | |

RECOMMENDED FOR MATHEMATICS MAJORS

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|-----------|----------------------------------|---|--|--|
| MATH& 163 | Calculus 3 | 5 | | |
| MATH& 264 | Calculus 4 | 4 | | |
| MATH 260 | Linear Algebra with Applications | 5 | | |
| MATH 261 | Differential Equations | 5 | | |

SUGGESTED ELECTIVES

| | | | | |
|-----------------------------------|---|---|--|--|
| MATH& 146 | Introduction to Statistics | 5 | | |
| PHIL& 120 | Symbolic Logic | 5 | | |
| PHYS& 241/231, 242/232, 243/233 | Engineering Physics I, II, III with lab | | | |
| CS 110, &131, 132, &141, 143, 233 | | | | |

ELECTIVES (Electives may be selected from the A and B lists on the DTA checklist. A maximum of 15 credits from the B list may be used.)

| Course | Credits | Qtr Completed | Grade | Course | Credits | Qtr Completed | Grade |
|--------|---------|---------------|-------|--------|---------|---------------|-------|
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Total: Minimum 90 credits required, with a 2.0 minimum cumulative GPA.

Everett Community College does not discriminate based on, but not limited to, race, color, national origin, citizenship, ethnicity, language, culture, age, sex, gender identity or expression, sexual orientation, pregnancy or parental status, marital status, actual or perceived disability, use of service animal, economic status, military or veteran status, spirituality or religion, or genetic information in its programs, activities, or employment. The Title IX Coordinator has been designated to handle inquiries regarding nondiscrimination policies and can be reached at 2000 Tower Street, Everett, WA 98201, TitleIXCoordinator@everettcc.edu, or 425-388-9271. This publication is effective **APRIL 2017**. The College reserves the right to change courses, programs, degrees and requirements. It is the student's responsibility to be aware of correct information by routinely checking with Enrollment Services and/or the advisors listed in this publication. Requirements applicable to all certificates and degrees are published in the College Catalog. Nothing contained herein shall be construed to create any offer to contract or any contractual rights. For more information, call 425-388-9219, Everett Community College, 2000 Tower Street, Everett, WA 98201, www.everettcc.edu