# Washington State Community and Technical Colleges Mathematics Pathways Packet 



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## Introduction to Mathematics Pathways Packet

In 2013, the Direct Transfer Agreement [DTA] between the Community and Technical Colleges [CTC] and the four-year colleges and universities was modified, allowing CTC mathematics faculty the opportunity to address their students' needs in their precollege math programs. Due to the relative independence of colleges within the CTC system, math faculty had flexibility in designing their college's precollege math programs to offer opportunities for students beyond the single pathway to all of the entry college-level math courses.

The Mathematics Pathways Packet describes the course offerings in each of the math programs at the CTCs in Washington State. A common flowchart was developed in order to illustrate more readily the various models that CTCs have utilized to help their students gain access to college-level math courses that transfer to four-year institutions.

Examinations of the CTCs websites and course catalogs were conducted to gather initial information about the CTCs math programs. Then, interviews with faculty and staff at the CTCs were performed to clarify and confirm the flowcharts that were developed. This packet provides flowcharts for the CTCs' math programs in 2016-17.

Each of the flowcharts illustrates the pathways within all of the CTCs' precollege math programs. The pathways are defined by the college level math courses that match up with the courses required in the DTA: Liberal Arts, Statistics, Elementary Education, Business, and STEM. The pathways within the precollege math program are color coded to match the college level math courses. Thus, by identifying the college level course that is needed for a student, one can follow the path from the precollege course where the student initially places to the desired college level course.

Math placement information is provided for each of the CTCs in a chart with each CTC flowchart. Six common methods have been identified for math placement of students: placement test, high school transcript, reciprocity, prior math class, SAT/ACT, and Smarter Balance. The chart also gives the length of time the placement is valid as determined by the college.

Lastly, within the flowcharts of the four-year colleges and universities, information about equivalency of CTC courses and credits for AP and IB testing is provided. The number of CTCs that have the corresponding course designated as equivalent to the four-year institution's course is included in the flowchart. Since credit for AP and IB testing is determined by the four-year institutions for CTCs transfer students, a chart of the four-year institution's credits for scores on the AP and IB test is provided.

I would like to thank Edmonds Community College, the Dana Center, and SBCTC for their support in making this packet.


Math Pathways to Completion

## Legend

## Flowcharts for CTCs



## Flowcharts for Universities




Bellingham Technical College


Big Bend Community College




Clover Park Technical College



Edmonds Community College
41 EDMONDS

| Placement |  |  |
| :---: | :---: | :---: |
| Test | HS Tran | Rec |
| Acc 2 yrs | 1 yr | 1 yr |
| Class | SAT/ACT | SB |
| 5 yrs | 1 yr | 1 Qtr |








Note: Math 007 is a bucket class for precollege. Students take it and then get placed into a math course.

| Placement |  |  |
| :---: | :---: | :---: |
| Test | HS Tran | Rec |
| Acc 2 yrs | 1 yr | 2 yrs |
| Class | SAT/ACT | SB |
| 2 yrs | 2 yrs | 1 yr |



| Placement |  |  |
| :---: | :---: | :---: |
| Test | HS Tran | Rec |
| Acc 2 yrs | 2 yrs | 1 yr |
| Class | SAT/ACT | SB |
| unlimited | -- | 2 yrs |








| AP/IB Credit |  |  |
| :---: | :---: | :---: |
| AP-AB | $3,4,5$ | M172 |
| AP-BC | $3,4,5$ | M172\&M173 |
| AP-Stats | $3,4,5$ | M311 |
| IB | -- | -- |

Central Washington University
CWN
Central Washington University


| AP/IB Credit |  |  |
| :--- | :---: | :---: |
| AP-AB | $3,4,5$ | M151 |
| AP-BC | 3 | M151 |
|  | 4,5 | M151\&M152 |
| AP-Stats | 4,5 | STAT231 |
| IB | -- | Gen Ed* |
| *General Education credits are |  |  |
| assessed to match students' |  |  |
| academic goals. |  |  |



PACIFIC
LUTHERAN UNIVERSITY

| Placement |  |  |
| :---: | :---: | :---: |
| Test | HS Tran | Rec |
| MPE | 1.5 yrs | -- |
| Class | SAT/ACT | SB |
| unlimited | 1.5 yrs | -- |

Notes: For placement a model is used that includes HS GPA, Math SAT, MPE results, and background questions. Math 331 also has the prerequisite of Math 152, Math 245 and Math 253. Three CTC's Math\&144 are equivalent to Math 140.


| AP/IB Credit |  |  |
| :---: | :---: | :--- |
| AP-AB | 3 | M1130 or 1230 |
|  | 4 | M1334 |
|  | 5 | M1334\&M1335 |
| AP-BC | 3 | M1334 |
|  | 4 | M1334\&M1335 |
|  | 5 | M1334\&M1335 |
| AP-Stats | $3,4,5$ | M1210\&ECON2100 |
| IB | 6,7 | M1130 or M1230 |
| IB-HL | 5,6 | M1130 or 1230 or |
|  |  | 1334 |
|  | 7 | M1335 |



| AP/IB Credit |  |  |
| :--- | :---: | :---: |
| AP-AB | 2 | M124* |
|  | 3,4 | M124 |
|  | 5 | M124\&M125 |
| AP-BC | 2 | M124** |
|  | 3 | M124 |
|  | 4,5 | M124\&M125 |
| AP-Stats | $3,4,5$ | Stat311 |
| IB | 5,6 | M120 |
|  | 7 | M124 |
|  |  |  |
| *Placement only. |  |  |
| **In conjunction with a subgrade of |  |  |
| 3, 4, or 5. |  |  | .

## University of Washington-Bothell <br>  <br> BOTHELL

Note: Advisors at UW Bothell are currently working on equivalency guides for the CTCs.

|  | Placement |
| :---: | :---: |
| Test | HS Tran |
| MPT | Rec <br> Class <br> unlimited |
| SAT/ACT | -- <br> -- |



| AP/IB Credit |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AP-AB | 2 | M120* |  |  |  |
|  | 3,4 | M 124 |  |  |  |
|  | 5 | $\mathrm{M} 124 \& \mathrm{M} 125$ |  |  |  |
| AP-BC | 2 | $\mathrm{M} 124^{* *}$ |  |  |  |
|  | 3 | M 124 |  |  |  |
|  | 4,5 | $\mathrm{M} 124 \& \mathrm{M} 125$ |  |  |  |
| AP-Stats | $3,4,5$ | Stat311 |  |  |  |
| IB | 5,6 | M 120 |  |  |  |
|  |  |  |  | 7 | M 124 |
| *Placement only. |  |  |  |  |  |
| **In conjunction with a subgrade of |  |  |  |  |  |
| 3, 4, or 5. |  |  |  |  |  | .

## University of Washington--Seattle WNIVERSITY of



| AP/IB Credit |  |  |
| :---: | :---: | :---: |
| AP-AB | 2 | M124* |
|  | 3,4 | M124 |
| AP-BC | 5 | M124\&M125 |
|  | 2 | M124** |
|  | 3 | M124 |
| AP-Stats IB | 4,5 | M124\&M125 |
|  | 3,4,5 | Stat311 |
|  | 5,6 | M120 |
|  | 7 | M124 |
| *Placement only. <br> **In conjunction with a subgrade of <br> 3,4 , or 5 . |  |  |

## University of Washington-Tacoma <br> W <br> UNIVERSITY of WASHINGTON I TACOMA




Western Washington University


WESTERN
WASHINGTON UNIVERSITY

Notes: $(H)=$ an honors course
M-Elect $=$ Math Elective


| Placement |  |  |
| :---: | :---: | :---: |
| Test | HS Tran | Rec |
| Alek 5 yrs | -- | -- |
| Class | SAT/ACT | SB |
| 5 yrs | -- | 1 yr |



## Appendix

The following are the flowcharts for colleges that have made changes to their math programs for the 2017-18 academic year: Bellevue College, Everett Community College, and Walla Walla Community College.



Walla Walla Community College


