

COMMUNITY COLLEGES OF SPOKANE ARTICULATION AGREEMENT

Articulated Programs

Spokane Community College Applied Math APLED 112 and Area High Schools

WHO IS ELIGIBLE?

Any student who has attended an articulated high school program where there is a signed agreement with Community Colleges of Spokane may receive college credit for instruction received at the high school.

PROCEDURES

CCS and High School Faculty

CCS faculty and high school faculty will partner to identify competencies and/or critical objectives a student will need to successfully transition into the professional/technical program(s) being articulated.

Instructional faculty within the two educational systems will determine whether similarities in educational experiences provided to students in the two systems result in duplication of required competencies as described above. Where duplication of competencies is evident, an attempt will be made to enter into an articulation agreement. Upon successful evaluation of respective programs, the faculty of CCS and the high school will sign a "*Discipline-Specific Articulation Agreement*" specifying the course(s) or individual competencies eligible for advanced placement. The "*Discipline-Specific Articulation Agreement*" shall become part of this agreement.

High School Instructor's Documentation of Competencies

Participating faculty at the high school will certify in writing the areas and levels of competency achievement by the student. This will become part of the student's permanent record and will be forwarded to the college upon request by the student and/or the college.

Student Documentation of Competencies

Students must secure the written certification of their teachers that they have accomplished competencies and/or critical objectives that comprise the agreed-upon articulation minimum course content for every CCS course for which they desire college credit. College credit will be granted only for those CCS courses listed in the appropriate "*Discipline-Specific Articulation Agreement*."

Student Application for College Credit

The procedures described in the CCS manual, **College Credit by Non-Traditional Means, Revised 1998**, shall be used by the student desiring college credit for high school courses.

Steps for Receiving Credit by Articulation at Community Colleges of Spokane

Step 1. **Notify your high school instructor** that you wish to receive college credit for your work in a professional/vocational program that has an ARTICULATION AGREEMENT with Community Colleges of Spokane.

- Step 2.** Work with your high school instructor **to meet the requirements** of the Articulation Agreement for your school. Your instructor will have a list of requirements or view the CCS web site: www.ccs.spokane.cc.wa.us (choose Admission Information, then choose Articulation Agreements).
- Step 3.** Obtain a community college application for admission from your high school counselor, college Admissions Office or web page at: www.scc.spokane.wa.us or www.sfcc.spokane.cc.wa.us
- Step 4. Complete the application** and remit with a \$10 non-refundable fee to Spokane Community College (SCC) or Spokane Falls Community College (SFCC) within 12 months of high school graduation. Applications are taken on a first come, first serve basis. Apply on or before December 1 of your senior year for the best chance to be accepted into the program of your choice.
- Step 5.** You will receive a letter from the Admissions Office regarding admission status. **Follow instructions in the letter in regards to testing, advising and registration.**
- Step 6. Complete 10 credits** with a grade of 2.0 in each class. Sometime during this quarter, notify the college program director of the vocational program that you will be using the Articulation Agreement.
- Step 7.** Make an appointment with a college instructor in the program you have chosen. This teacher will assist you with the Application for Nontraditional Credit form #4020.
- Step 8.** Take the completed Application for Nontraditional Credit form to the **Transcript Office**. Credit will then be posted to your official college transcript. There is a charge of \$5 per credit, plus a \$10 processing fee. (Example: 5 credits, cost \$35.)

Please Note: The intent of Articulation is to give recognition to professional/ technical work completed in a high school program. Students are expected to enroll in the same professional/technical program at the college. Most credits received are **not transferable** to a 4-year institution.

CCS and High School Counselors/Advisors

CCS and high school counselors will cooperate toward developing, disseminating, and presenting professional/technical career information to students within the public school system. Such information will include, as a minimum, an orientation on career programs at the high school and community college levels and the articulation agreements that have been established among the systems of education.

Publicity

The colleges and high schools will develop methods of publicizing the agreements to encourage students to take advantage of seamless transitions and advanced placement opportunities.

Community Colleges of Spokane Articulation Agreement

Spokane Community College Applied Math APLED 112 and Area High Schools

We, the undersigned faculty representatives and administrators, agree to the following:

1. We agree with the principles, practices, and procedures for entering into and changing articulation agreements as set forth in the document "Articulation Agreement."
2. We have evaluated respective individual and course competencies and have determined that high school graduates who successfully complete the competencies identified in the course(s) listed below, as stipulated in the document titled "Articulation Agreement" are eligible for advanced placement. In addition, the student must:
 - Have appropriate ASSET or SAT scores for admission to the program. *
 - Apply for admission to Spokane Community College or Spokane Falls Community College within 12 months of graduation from high school.
 - Receive a grade of 3.0 or better in all math classes being used to meet the college competencies.
 - Obtain a signed certification form from the high school applied mathematics instructor indicating that the student has achieved the competencies of APLED 112. Competencies are listed on the following pages.
 - If the high school course is completed in the freshman or sophomore year, current competency will be established by a written examination given by the SCC APLED department. If the math is taken during the junior and/or senior year, no competency exam will be required.

High School

Integrated Math I & II or equivalent
One full academic year

SCC/SFCC

APLED 112 Applied Math
4 credits

*Students with lower scores will be admitted to the college and asked to take courses that will support college success. This may delay admission to the selected vocational program. The ASSET test is given at Spokane Community College and Spokane Falls Community College. There is a \$10 charge for the test.

A charge of \$5 per credit is assessed to award credit per this agreement, plus a one-time processing fee of \$10. (For example: to receive 5 credits, the cost would be \$35.)

High School:

Applied Math

CCS College(s):

Spokane Community College

SCC Program/Division:

Applied Math APLED 112

Superintendent: Date

SCC Faculty: Date

SCC Department Chair: Date

SCC Division Dean: Date

SCC Vice President of Instruction: Date

SCC President: Date

Spokane Community College

Applied Mathematics APLED 112 Evaluation Criteria

- 4- Highly Proficient:** Can complete task quickly and accurately, can direct others in how to do task. Demonstrates an excellent understanding of the competency and/or critical objective. Needs only normal supervision.
- 3- Competent:** Can do all parts of the task. Needs only spot check of complete work. Demonstrates a very good understanding of the competency and/or critical objective. Meets minimum entry-level requirements. Needs job-entry supervision.
- 2- Partially Proficient:** Can do most parts of the task. Needs help only on hardest parts. Demonstrates partial understanding of the competency and/or critical objective. May not meet all job-entry level requirements for speed and accuracy. Needs close supervision.
- 1- Limited:** Can do simple parts of task. Needs to be told or shown how to do most of task. Demonstrates a little understanding of the competency and/or critical objective. Needs extremely close supervision.
- 0-** Cannot perform any part of task at a level sufficient for participation in a work environment. Demonstrates no understanding of the competency and/or critical objective.

APPLIED MATHEMATICS APLED 112 COMPETENCIES

Dist 81	SCC	Comp MTAG	COMPETENCY	4	3	2	1	0
			UNIT A - Getting to Know Your Calculator					
			<ul style="list-style-type: none"> • Enter numbers, fractions, and decimals into a calculator and read the output displayed by a calculator. • Add, subtract, multiply, and divide fractions with a calculator. • Add, subtract, multiply and divide mixed numbers with a calculator. • Add, subtract, multiply, and divide decimals with a calculator. 					
			UNIT B - Naming Numbers in Different Ways					
			<ul style="list-style-type: none"> • Change percents to decimals • Change decimals to percents. • Use a calculator to change fractions to decimals. • Change decimals from your calculator to fractions. • Solve problems that contain information in the form of fractions, decimals, or percents. 					
			UNIT C - Finding Answers with Your Calculator					
			<ul style="list-style-type: none"> • Read the problem and begin to understand the situation. • Figure out what the problem is asking you to find. • Decide what math operations (+, -, x, ÷) to do as you solve a problem. • Use your calculator to work problems that have more than one step. 					

Dist 81	SCC	Comp MTAG	COMPETENCY	4	3	2	1	0
			UNIT 1 - Learning Problem-solving Techniques					
			<ul style="list-style-type: none"> • Read a problem and decide what is given and what is to be found. • Develop a plan for solving the problem. • Carry out your plan to solve the problem. • Check the answer and decide if it is reasonable. 					
			UNIT 2 - Estimating Answers					
			<ul style="list-style-type: none"> • Make rough estimates. • Round and truncate whole numbers to a given number of digits. • Round and truncate decimal numbers to a given number of digits. • Estimate answers to problems that involve several steps. • Check the answers to problems to make sure that they are reasonable. 					
			UNIT 3 - Measuring in English and Metric Units					
			<ul style="list-style-type: none"> • Use the common measurement units for length, area, volume, capacity, and weight in the English system. • Use the common measurement units for length, area, volume, capacity and weight in the metric system. • Convert measurement units from one form to another and carry out calculations that involve various measurement units. • Read measurements taken with common measuring tools. • Use tools to measure quantities and solve problems that involve these measurements. 					
			UNIT 4 - Using Graphs, Charts and Tables					
			<ul style="list-style-type: none"> • Read tables. • Read and draw bar graphs. • Read circle graphs. • Read and draw line graphs. 					
			UNIT 5 - Dealing with Data					
			<ul style="list-style-type: none"> • Recognize a problem that needs more data, and find a source for that data. • Collect the data you need to solve a problem. • Organize the data to help you solve the problem. • Interpret or use the data so you can solve the problem. 					
			UNIT 6 - Working with Lines and Angles					
			<ul style="list-style-type: none"> • Name the different parts of lines, angles, and circles. • Recognize parallel and perpendicular lines. • Draw lines, angles, and circles. • Draw lines and angles to produce parallel and perpendicular lines. • Use geometric figures to solve work-related problems. 					
			UNIT 7 - Working with Shapes in Two Dimensions					

Dist 81	SCC	Comp MTAG	COMPETENCY	4	3	2	1	0
			<ul style="list-style-type: none"> Identify common figures (such as rectangles, squares, triangles, parallelograms, trapezoids, and circles) within objects. Calculate the perimeter and area of common figures. Calculate the circumference and area of circles. Solve work-related problems that involve common figures. 					

			UNIT 8 - Working with Shapes in Three Dimensions					
			<ul style="list-style-type: none"> Identify cylinders, rectangular solids, cones, and spheres. Calculate surface area and volume for cylinders, rectangular solids, cones, and spheres. Solve problems that involve cylinders, rectangular solids, cones, and spheres. 					

			UNIT 9 - Using Ratios and Proportions					
			<ul style="list-style-type: none"> Read and interpret ratios. Compare ratios. Recognize and write proportions from given information. Distinguish between direct and indirect relationships. Solve proportions in practical, work-related problems. 					

			UNIT 10 - Working with Scale Drawings					
			<ul style="list-style-type: none"> Read and use the scale of a drawing. Find the dimensions of an object from a scale drawing. Find distances and directions on land maps. Make simple scale drawings. 					

			UNIT 11 - Using Signed Numbers and Vectors					
			<ul style="list-style-type: none"> Identify signed numbers. Find the absolute value of signed numbers. Combine signed numbers. Find the magnitude and direction of a vector. Solve problems using signed numbers and vectors. 					

CERTIFICATION
APLED 112 - Applied Mathematics

I certify that _____ has:
(name of student)

1. Demonstrated competency attainment for Spokane Community College Applied Mathematics APLED 112 as indicated on the attached competency list.
2. Completed 2 semesters or 3 tri-semester of integrated math or equivalent with a grade of 3.0 or above.

Teacher

Date

High School