

Some Options for Learning High School Mathematics

In order to assist families looking for high school mathematics options, the Shorecrest PTSA Math Committee has compiled the following list based on experience of its members. This document will be updated periodically as the PTSA Math Committee becomes aware of necessary corrections, changes, or new options.

The PTSA does not warrant the correctness of the information and, by listing any option, the PTSA is not providing a recommendation for it. Each family should carefully assess any option under consideration. A discussion with your high school counselor regarding the ramifications of each option with respect to the Shorecrest high school transcript (credit, letter grade or P/NC, transfer of credit/letter grade/P), college admissions, transportation, cost, and (for athletes) NCAA eligibility is highly recommended.

Option / Program	Website	Materials / Notes	Cost
A. Tutoring / Individual help programs			
Math Department Internet Links	http://schools.shorelineschools.org/shorecrest/math/mathlinks.php	Internet Links to IMP skills practice and to interactive math sites.	\$0
Shorecrest Math Night		Most Wednesday afternoons 3:30-5:30 pm, Shorecrest High School Library. The SC Math Night is staffed by at least one math teacher, plus student tutors.	\$0
SC Student Tutor		Students in Precalculus and Calculus AB are required to tutor math. National Honor Society members must tutor and students may also tutor math for community service credit. Check with the Math Department for available student math tutors.	\$0
Tutor for Individual Student General Tutoring Resources	http://schools.shorelineschools.org/shorecrest/math/	Shorecrest Math Department maintains lists of people who have agreed to tutor individual students and general tutoring resources. Check with Shereen Henry or Patty Mitchell (Math Department co-chairs).	Varies by tutor.
Tutoring Club	http://lakeforestparkwa.tutoringclub.com/localinfo.asp (206)365-8886	Small group (2-3 students) tutoring at Lake Forest Park Towne Centre. By the day or a discounted block of days.	Varies. Call 206.365-8886 (Victoria)
B. Remedial programs / Math courses (no high school credit)			
Agile Minds	http://www.thinkfive.com	Web-based. Can be used as a reference for individual topics. There is a pending proposal to cross-reference this resource to the IMP curriculum.	\$0 (Available to all Shorecrest students at no

		Check with the student's Shorecrest math teacher for information to obtain URL/password.	charge.)
HeyMath	http://www.heyath.com:80/ New York Times OpEd article http://www.nytimes.com/2005/09/16/opinion/16friedman.html?n=Top%2FOpinion%2FEditorials%20and%20Op-Ed%2FOp-Ed%2FColumnists%2FThomas%20L%20Friedman	Web-based. Company is in Chennai, India, used worldwide. Is being piloted by the Massachusetts Department Of Education As A Resource For Teacher Professional Development And Lesson Planning. Has a strong presence in Singapore.	\$99 for a personal account covering Grades 9-12.
Indian Math Online	http://www.indianmathonline.com:80	Web-based. Indian Math Online is a web-based learning system developed with the principles of mathematics as practiced throughout the education system in India. Indian Math Online is currently available for Grades 1 through 10.	\$15 / month basic
Saxon Math	http://saxonpublishers.harcourtachieve.com/en-US/Products/default.htm?Catalog=Harcourt%20Achieve%20Catalog&Category=SaxonMath&CatalogNavigationBreadCrumbs=Harcourt%20Achieve%20Catalog;SaxonMath	Traditional math series textbooks. Structured. Popular with homeschoolers and used in Tacoma School District.	Varies (\$57-\$67) depending on textbook.
Singapore Math	http://www.singaporemath.com/ Also available at Math 'n Stuff in Seattle.	Popular textbook series used in Singapore. Grades 1-10 (more advanced than equivalent grades in US).	\$12.50 1 semester student text, \$6.50 1 semester teacher text.
Teaching Textbooks	http://www.teachingtextbooks.com/Products.htm	Traditional math series: 5 th grade-Pre-calculus. Textbooks plus lectures on CDs.	Each course book and CD set cost about \$180.
C. Alternatives to IMP math courses with Shorecrest credit and letter grade on transcript.	Community college classes can generally be taken for credit and a letter grade on the Shorecrest transcript if the student is 16 or older. With a high school counselor's permission, any high school student can take Shoreline Community College classes (SCC has enrolled students as young as 12 years old). For other community colleges, call the college to obtain their enrollment policy for students under 16. Running Start classes MUST be recorded both on the college and the high school transcript.	The pace of a community college math course will be much faster than the pace at the high school. One college quarter will generally cover the same material as one high school year . Shorecrest High School → Community college course equivalents: Math 1 → Unknown (check with SC counselor) Math 2 → Unknown (check with SC counselor) Math 3 → Math 99 Intensive Intermediate Algebra .	

	<p>“Self-pay” 100 or higher level classes CAN BE recorded on the high school transcript (credit and letter grade) if requested of the high school counselor by the student/parent prior to the start of the class.</p> <p>See Section D. for students under 16 who are admitted to community college classes.</p> <p>See also Shoreline District School Board Procedure 2410P, regarding credit and grades, http://www.shorelineschools.org/about_us/school_board/policy_manual/content/2410P.pdf , and Washington State law for Running Start, http://apps.leg.wa.gov/wac/default.aspx?cite=392-169</p>	<p>0.5 credit units will be given (as opposed to 1.0 credits for Math 3). Precalculus→ Math 110, 120 (check with SC counselor for credits) Calculus→ Math 124, 125, 126 (check with SC counselor for credits)</p>	
Running Start	<p>Running Start is available at any of the community colleges for high school junior or senior students.</p> <p>Students can earn high school and college credits simultaneously. College credits will transfer to Washington public universities, but may not transfer to private colleges or out-of-state universities.</p> <p>Some online courses are available.</p>	<p>Course grades are posted as letter grades on both the community college transcript and Shorecrest transcript. These grades will count in the high school GPA.</p> <p>Running Start courses cannot be taken during Summer Quarter.</p>	<p>\$15.40 COMPASS test (3 sections: reading, writing, math) (student must place in Eng 101 for reading and writing, students need to pass math COMPASS to place into college level math classes as well (100+ level))</p> <p>\$0 for tuition if 100 level or higher, \$Full tuition, if course is <100 level.</p> <p>Books and course fees not</p>

			covered.
"Self-pay"	Some community colleges offer non-running start underage students (16-17 years) the opportunity to enroll. With a high school counselor's permission, some community colleges offer non-running start opportunities to teens as young as 12 years old.	Course grades are posted as letter grades on the community college transcript. Optionally, course grades and credit MAY be posted on the Shorecrest transcript if requested by the student/parent. These grades will count in the high school GPA if added to the Shorecrest transcript.	Full tuition
D. Alternatives to IMP math courses with Shorecrest credit and P grade on transcript.	<p>Semester-long classes from accredited institutions can be used for Shorecrest credit on a limited, permission basis.</p> <p>Examples are listed below.</p> <p>Goggle "Distance Learning High School" for other possible online high school courses from accredited institutions.</p> <p>See also Shoreline District School Board Procedure 2410P, http://www.shorelineschools.org/about_us/school_board/policy_manual/content/2410P.pdf , regarding policy and procedure for high school credit, grading, and transfer evaluation.</p>	Course grades are posted as P on the Shorecrest transcript and listed as "Math Transfer" (provided that the student passed). P grades do not count in the Shorecrest High School GPA. The transcript with the letter grade from the online high school must be obtained and submitted to colleges by the applicant.	
Apex math program-credit recovery (see also Digital Learning Commons below)	Shoreline School District http://www.apexlearning.com/	The Apex on-line math program is a traditional math program. The company has " comprehensive " courses designed to fully meet college preparatory requirements and " essential " courses designed to be a streamlined curriculum to meet high school graduation requirements and support remediation, intervention, and credit recovery. The essential courses are available through the Shorecrest online credit recovery program 4, 5, 6, and 7 th (after school) periods. A facilitator assists students with computer issues, but does not provide tutoring. The original grade of NC remains on the transcript and credit for "Math Transfer" plus a grade of P is recorded after successful completion of the course.	\$0 for Shorecrest students enrolled in credit recovery class.

Washington State Online Schools	<p>Online schools in Washington State:</p> <p>Everett OnlineHS, http://online.everett.k12.wa.us/webapps/portal/frameSet.jsp</p> <p>Evergreen Internet Academy, http://www.egreen.wednet.edu/Lists/Locations/DispForm.aspx?ID=37</p> <p>Federal Way Internet Academy, http://www.iacademy.org/ (See below)</p> <p>Insight School, http://www.go2ischool.net/</p> <p>Spokane Virtual Learning, http://www.spokaneschools.org/OnlineLearning/</p> <p>Washington Virtual Academy, Monroe, http://www.wava.org/</p>	<p>If the student is not full-time in the Shoreline School District, the student may be able to dual enroll in an online school and take classes free of charge. Full time students in the Shoreline School district may be able to take classes for a fee. Check with the online school to see whether it accepts part-time students and to determine its policy for "self-pay" students.</p> <p>These are Washington state high schools. Verify with the SC counselor if the high school credit transfer from them will go on the Shorecrest Transcript as Math Transfer + P, or Course Name + letter grade.</p>	<p>E.g. at the Internet Academy:</p> <p>\$0 if 0.2 FTE student in Federal Way District.</p> <p>\$325/semester class for full-time students in the Shoreline District.</p>
BYU Independent Study High School Program, Brigham Young University	<p>http://ce.byu.edu/is/site</p>	<p>Traditional math series through Pre-calculus used by several Shorecrest families.</p> <p>Note: The curriculum for BYU courses in health (HLTH 41) and consumer economics (ECON 41) were reviewed and approved by the responsible Shorecrest departments approximately seven years ago as direct substitutes for courses taught at Shorecrest. Thus, unlike for all other BYU courses, students who take these two courses receive a letter grade directly on the Shorecrest transcript.</p>	<p>\$120 / 0.5 credit</p>
Digital Learning Commons	<p>http://www.learningcommons.org/</p> <p>(Course providers: Apex Learning, Aventa Learning, Internet Academy, Spokane Virtual Learning, UW Extension, Virtual High School)</p> <p>The Apex courses for credit recovery are now in use at Shorecrest. The details for use of other online courses available through DLC in the Shoreline District have yet to be worked out.</p>	<p>The Digital Learning Commons (DLC) is a nonprofit organization established to improve access to educational opportunities and learning resources by providing high-quality educational materials, online courses, and technology tools for Washington's students, teachers, and parents.</p> <p>The DLC is not a school and, therefore, does not award credits or diplomas.</p>	<p>To be determined (proposed \$100/course)</p>

		<p>All of the online course providers offer credit that can be accepted at the discretion of the school principal or other district designee.</p> <p>All online course providers issue final grade reports—available to both the student and the student's Teacher/Mentor. This report should be used by the school to determine the credit and grade to be awarded on the student's local transcripts.</p> <p>Each school establishes a policy for which courses are made available to its students.</p>	
Educational Program for Gifted Youth (EPGY), Stanford University	<p>http://epgy.stanford.edu/</p> <p>An online placement exam is available.</p>	Traditional math series for K-Advanced undergraduate. Also have special enrichment courses to help students prepare for the AMC mathematics contests. BC Calculus classes used at Bothell High School.	\$495 / course. All students must apply for admission and submit standardized test scores (e.g. SAT).
John Hopkins Center for Talented Youth	http://cty.jhu.edu/	Traditional math series at accelerated pace. Must qualify for program based on SAT-V, SAT-M, and/or PSAT test scores.	Tuition: 3 months \$ 640 6 months \$1195 9 months \$1825
Robinson Center for Young Scholars, University of Washington	http://depts.washington.edu/cscy/programs/summer/7-10grade/classes.shtml	Accelerated summer high school math classes (integrated or traditional)	\$850 / course
Competency testing		A Shorecrest student may skip a math course by demonstrating competency through a score of at least 80% on two semester final exams and 2-3 mastery tests. Students will need to prepare for the competency tests by studying the textbook material independently or with a tutor, or taking an outside class (UW intensive summer course for high school, etc.). An informational handout regarding competency testing may be requested from the math department. Verify with the counselor if and how course credit and grade/P will appear on the	

		transcript.	
E. Alternatives to IMP math courses with other high school credit.	See also Shoreline District School Board Procedure 2410P, http://www.shorelineschools.org/about_us/school_board/policy_manual/content/2410P.pdf , regarding policy and procedure for high school credit, grading, and transfer evaluation.		
Shorewood High School		Shorewood High School uses an integrated math curriculum, but not the IMP textbooks. Dual enrollment is currently done for students who wish to take courses offered only at Shorewood. Transportation is the responsibility of the student.	\$0
Home school at Shoreline Home Education Exchange (The Home Education Exchange is open to any Washington state student in grade K-12, as are homeschool support centers in other districts). It is currently housed at North City Elementary School.	http://schools.shorelineschools.org/home_education http://www.wingsnw.com/wings/hee	A student can be enrolled full-time; or on a part-time basis (minimum 0.2 FTE), depending on FTE at other public high school. Full-time students have a curriculum fund which can be used to buy new curriculum materials or take classes within HEE. Enrolled full-time and part-time students can check out curriculum materials from HEE free of charge. A wide variety of materials are available, including Singapore Math, Saxon Math, and Teaching Textbooks. The quota for full and part-time students is limited. See the handbook available on the website. The program does not provide stand-alone high school courses that lead to Shoreline credit. A high school transcript can be developed through North Atlantic Regional High School (NARHS) . This recordkeeping service assists parents in developing a class syllabus (academic plan) around the chosen curriculum.	See handbook. The class “High School Mathematics” taught by Laura Brown focuses on test preparation for Running Start (Compass/Asset), SAT, and ACT. \$54/semester. NARHS is \$450/year. Credits can be transferred if accepted by the current high school.
Other local high schools	Based on a survey of 2008-2009 online registration materials, the following math programs are offered at nearby public high schools:	1. Integrated math, IMP textbooks (Nathan Hale) 2. Integrated math, not IMP textbooks (Integrated Mathematics , McDougall - Littell) (Shorewood) 3. Integrated math, not IMP textbooks (CORE Plus: Mathematics in Context: A Unified Approach and	

		<p>Core-Plus Mathematics, Glencoe/McGraw) (Bothell, Inglemoor, Woodinville)</p> <p>4. Integrated math, unknown textbooks (Ingraham, Edmonds-Woodway)</p> <p>5. Traditional math (Mountlake Terrace)</p> <p>6. International Baccalaureate (IB) math (Ingraham, Inglemoor)</p>	
Home school in math		<p>A high school transcript can be developed through North Atlantic Regional High School (NARHS). This recordkeeping service assists parents in developing a class syllabus (academic plan) around the chosen curriculum.</p>	<p>NARHS is \$450/year. Credits can be transferred if accepted by the current high school.</p>