JESUIT HIGH SCHOOL

SUMMER SESSION ONE

June 17 - July 19, 2024
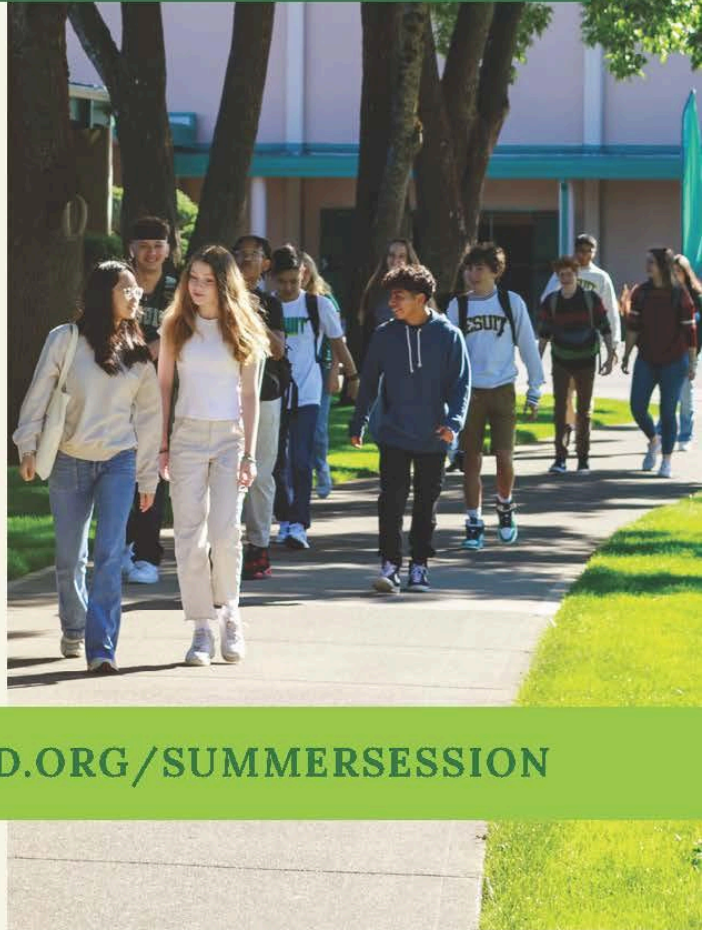
JESUITPORTLAND.ORG/SUMMERSESSION

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Summer Session Information

* Registration for <u>Grade-School Families</u>, <u>Middle-School Families</u> and <u>Jesuit Families</u> Opens APRIL 15. *

* Registration for <u>High-School Families That DO NOT Attend Jesuit</u> Opens APRIL 29. *

ABOUT

An integral part of Jesuit High School's mission, Summer Session One serves students in the Ignatian tradition, providing curricula that supports regular school programming, that offers academic enrichment, and that provides academic remediation. Open to the public, most Summer Session One courses begin Monday, June 17 and conclude Friday, July 19. Check the course catalog for specific dates and times. Courses are available for students in grades 6-12, and class sizes are limited so that teachers can provide individualized instruction. Courses are divided into three sections: **J**esuit Campus (**J**), **O**nline (**O**), and Self-Paced (**A** or **I**).

Summer Session Two courses take place July 22 - August 16. For information about Summer Session Two, email Dr. John Gorman: jgorman@jesuitportland.org. For the Summer Session Two course catalog, visit the Summer Session webpage on the Jesuit website.

CONTACT

If you have questions about Summer Session One, which runs June 17 to July 19, email René Villareal, Director of Summer Session, or Susie Rall, Summer Session Registrar: summersession@jesuitportland.org. Summer Session email office hours are 7:00 a.m.-2:00 p.m., Monday through Friday. Summer Session can also be reached at (503) 291-5460.

REGISTRATION

1. Registration opens on April 15 for middle-school students and for current Jesuit students. Registration opens on April 29 for high school students who DO NOT attend Jesuit.
2. Registration is online only, and will not be taken over the phone or via email. Phone or email inquiries will not hold seats in classes. Registration is first-come-first-served.
3. Some classes have prerequisites. Please pay close attention to these requirements upon registration.
4. Jesuit sophomores, juniors and seniors should provide their JMail addresses at registration. For incoming freshmen and non-Jesuit students, however, it is important that they provide a **personal email that the student owns or regularly accesses**. It is advised that **incoming freshmen not use their middle-school email addresses at registration** and that **Beaverton School District (BSD) and Portland Public Schools (PPS) students not use their school-issued email addresses at registration** as many schools will discontinue these accounts at the conclusion of the regular school year. It is also advised that **current**

middle-school students not use their middle-school email addresses at registration as some of these accounts are unable to receive email from outside organizations.

EARLY REGISTRATION DISCOUNT

Registration completed by Friday, May 31 will receive a $25 discount. See the "Course Descriptions" section for tuition amounts.

ATTENDANCE POLICY

1. Classes will not be held on Wednesday, June 19 and Thursday, July 4.
2. To report an absence, email your student's teacher directly and Cc Susie Rall, Summer Session Registrar (summersession@jesuitportland.org) by 8:00 a.m. A Teacher Email Directory will be emailed to parents and will also be available on the Summer Session web page. You may also call (503) 291-5460 and leave a message.
3. A student who misses more than two class days may only take a course for non-credit. Although challenging, it is still possible to use the course for advancement.
4. Online courses meet in real-time via Zoom, exceptions being courses listed as Self-Paced. Otherwise, the times associated with online courses indicate when students are required to meet virtually with their instructors via Zoom.
5. The following constitutes an absence:
   - For a Jesuit Campus course, student does not attend in-person.
   - For an Online course, student does not attend synchronous class meeting via Zoom and/or does not complete classwork during allotted meeting time due to illness or other conflicts.
   - For an Asynchronous course, student does not meet a weekly checkpoint as indicated by the instructor.

WITHDRAWAL AND REFUND POLICY

1. All withdrawals must be emailed to Susie Rall, Summer Session Registrar: summersession@jesuitportland.org.
2. Withdrawal fees are based on the following deadlines:

June 7	$35 Fee
June 8-16	$65 Fee
June 17-21	$95 Fee
After June 21	No Refund

CODE OF CONDUCT

Whether online or in-person, students are expected to treat faculty, staff, students and physical property with respect. Students who fail to do so will be asked to leave the program. Classroom expectations, both online and in-person, will be reviewed on the first day of class.

CLASS CANCELLATIONS

Under-enrolled classes may be canceled. Families will be notified of such cancellations.

CREDIT COURSES FOR NON-JESUIT STUDENTS

Jesuit High School is fully accredited by AdvancEd. Prior to the conclusion of Summer Session, students and families will receive a Credit Selection Form, at which time they will indicate taking a credit course for credit (letter grade), for credit (pass/fail), or for non-credit. Non-Jesuit students are advised that missing more than two days of class will result in earning non-credit for a credit course.

To determine if Summer Session credit is accepted by their schools, students should consider the following:

- Jesuit High School does not guarantee that Summer Session credit will be accepted by schools other than Jesuit.
- Before classes begin, students are responsible for checking with their school administration to determine if Jesuit Summer Session credit is acceptable.
- Grades will be sent to schools upon receiving a signed Credit Selection Form that will be distributed prior to the conclusion of the Summer Session.

CREDIT COURSES FOR JESUIT STUDENTS

A credit course has three options for enrollment:

1. **For credit (letter grade):** The class will be included in the student's Jesuit High School transcript with a letter grade, but the grade will not be calculated into the GPA. Exceptions include courses being remediated during Summer Session One; grades that students earn in courses being remediated will be calculated into the GPA.
2. **For credit (pass/fail):** The class will be included in the student's Jesuit High School transcript, but the grade will not be calculated into the GPA. A final grade of 70% or greater is passing.
3. **For non-credit:** The class will not be included in the student's transcript. This is the only option for a student who misses more than two days of class.

Prior to the conclusion of Summer Session, students and families will receive a Credit Selection Form, at which time they will indicate taking a credit course for credit (letter grade), for credit (pass/fail), or for non-credit. Missing more than two days of class will result in earning non-credit for a credit course.

Jesuit students and families should consider the following as it pertains to transcripts and Fall placements:

- Jesuit High School transcripts will include Summer Session classes taken for credit by incoming freshmen.
- Classes taken prior to the summer before a student's freshman year at Jesuit will not be included in the student's high school transcript.
- Students may use Summer Session classes to move ahead in their placement for a Jesuit math course in the Fall. Receiving credit for a math course does not determine Fall math placement. Requirements for advancement are described in course descriptions and will be explained on the first day of class. Furthermore, requirements typically include a final grade of A- or higher and the recommendation of the Summer Session teacher. In some cases, a student may be asked to complete a placement exam to help determine appropriate Fall placement.

FREQUENTLY ASKED QUESTIONS (FAQ)

1. **What is Jesuit's mask policy on campus?**

    Jesuit does not require that masks be worn on campus. It is the choice of students, faculty, staff and guests to determine if they will wear a mask on campus. We will continue to monitor the medical advice provided by the CDC, the OHA, the ODE, and our local county medical experts.

2. **Do online courses meet at specific times?**

    Yes. Online classes meet in real-time via Zoom. The times associated with each course indicate when students are required to meet virtually with their instructors. It is important that students join Zoom promptly so that they are aware of the day's agenda. Students and families are advised that Jesuit offers only three classes that are Self-Paced. For listings of Online and Self-Paced courses, see the "Online" and "Self-Paced" courses sections in "Course Descriptions."

3. **Will Jesuit issue my student a laptop or a tablet for an Online course?**

    No. Jesuit is unable to issue devices to incoming freshmen, transfer students, and non-Jesuit students. Incoming freshmen, transfer students, and non-Jesuit students will need to use a home desktop, laptop, or tablet with a camera and microphone to complete coursework. Jesuit students who are rising sophomores, juniors, and seniors should use their school-issued iPads.

4. **Will Jesuit provide a book to my student for an online course?**

    No, in most cases. Some online courses will require that families purchase required texts. See "Course Descriptions" to determine if an online course requires purchasing texts.

5. **Will Jesuit provide a book to my student for an in-person course?**

    Yes. Teachers will distribute books on the first day for those classes that require them.

6. **Where will my student access resources and materials for Online and Self-Paced courses?**

   Online and Self-Paced courses will use Canvas, a web-based Learning Management System (LMS). Teachers will enroll students into their Canvas courses by using the email that families provide at registration; Jesuit sophomores, juniors and seniors should provide their JMail addresses at registration. For incoming freshmen and non-Jesuit students, however, it is important that they provide an **email that the student owns or regularly accesses**. It is advised that **incoming freshmen not use their middle-school email addresses at registration** and that **BSD and PPS students not use their school-issued email addresses at registration** as many schools will discontinue these accounts at the conclusion of the regular school year. Once students are enrolled in Canvas, they will be able to access course materials, to message the instructor, and to access their course calendar.

7. **What is the difference between an Online course and a Self-Paced course?**

   Online courses meet at specified times via Zoom. Self-Paced courses do not meet at specified times.

8. **What is the difference between a Self-Paced course that is Independent Study and a Self-Paced course that is Asynchronous?**

   An **Independent Study** course is a non-credit course used for advancement only in which students complete work at their own pace.

   An **Asynchronous** course is a credit course in which students have assignments that must be completed by Friday of each week during Summer Session.

COURSE DESCRIPTIONS

Courses are divided into three sections.

Course Letter	Description
J	Jesuit Campus course that meets in person
O	Online course that meets in real-time via Zoom
I	Self-Paced course that is an Independent Study course completed online
A	Self-Paced course that is an Asynchronous course completed online

Jesuit Campus Courses

Courses listed in this section meet in-person on Jesuit High School's campus. The times associated with each course indicate when students are required to meet in a Jesuit classroom with their instructors. For listings of Online and Self-Paced courses, see the "Online" and "Self-Paced" sections.

COMPUTER SCIENCE

#106-J PYTHON FOR BEGINNERS: GAMES

| 6/17-7/19 | 11:00-12:30 p.m. | $375 by 5/31 | $400 after 5/31 | No credit |

Description: This course is for students new to programming or who have not programmed with Python. Students will acquire the programming skills necessary to create programs of their own. Students will begin learning **basic Python commands and syntax** by writing code for simple text-based logic games. As the course progresses, students will incorporate more complex aspects, including **graphics**, **animation**, and **sound**. Although this course will use the Python programming language, the concepts covered in this course will form the foundation necessary to learn other programming languages. Expect 30 minutes of coding homework for each class day.

Prerequisites: No previous programming experience is required. The course will require logic skills similar to the level required of a student currently studying algebra 1 or higher.

Become comfortable using the following statements:	Use standard library functions:

`import`
`while`
`if`
`elif`
`break`
`def`
`del`
	print()
	input()
	randint()
	list()
	range()
	join()

First learn the basics:

		Then expand skills:
Apply proper syntax	Define conditions	Use simple encryption
Evaluate expressions	Call functions	Keep score
Store values in variables	Write functions	Create basic AI algorithms
Name variables	Return values	Use pygame
Overwrite variables	Distinguish between local	Use a clock to pace a program
Define constant variables	scope and global scope	Program keystrokes to manipulate graphics
Import modules	Debug	Incorporate sound files
Use loops to repeat code	Create flowcharts	Incorporate image files
Group with blocks	Create simple ASCII art	Create options to end or pause a game
Pass arguments to functions	Access items with indexes	
Incorporate comparison operators	Slice lists and strings	

#108-J PYTHON: INTRODUCTION TO CRYPTOGRAPHY

6/17-7/19	1:00-2:30 p.m.	$375 by 5/31	$400 after 5/31	No credit

Description: Students will study several **ciphering techniques**, and use them in **encrypting**, **decrypting**, **hacking**, and **programming**. The course will present basic **number theory** concepts that are key to cryptography. Expect 30 minutes of coding homework for each class day.

Prerequisites: Students need to have completed algebra 1 and be familiar with programming logic through experience with any language, but no experience with Python is necessary. All relevant Python language will be explained in the course.

Topics:

Programming ethics	Programming the affine cipher
Reverse cipher	Hacking the affine cipher
Caesar cipher	Programming the simple substitution cipher
Hacking the Caesar cipher	Hacking the simple substitution cipher
Encrypting with the transposition cipher	Programming the vigenère cipher
Decrypting with the transposition cipher	Frequency analysis

Encrypting and decrypting files	The one-time pad cipher
Detecting English programmatically	Finding and generating prime numbers
Hacking the transposition cipher	Generating keys for the public key cipher
Modular arithmetic	Programming the public key cipher

#500-J, INTRO TO AI WITH MAKECODE

6/17-6/28   12:00-3:00 p.m. $315 by 5/31 $340 after 5/31   No credit

We're going to train our AI to be able to recognize a few typical city vehicles and write a program in MakeCode to play sounds unique to each one on the micro:bit, depending on which vehicle is recognized.

#510-J, CAD/ CAM DESIGN

7/1-7/12   12:00-2:00 p.m. $215 by 5/31 $240 after 5/31   No credit

Students will learn basic principles of computer aided design (CAD) and computer aided manufacturing (CAM) to create a personalized project.

ECONOMICS

#610-J, INTRODUCTION TO MICROECONOMICS
6/17-7/19   8:00-12:00 p.m. $470 by 5/31 $495 after 5/31   No credit

This course is offered so that students can be introduced to Microeconomics, which is the study of behavior of households and firms, whose collective decisions determine how resources are allocated in a free market economy. This course will introduce the concepts of supply and demand and the forces that impact equilibrium in the economy. This course will also dive into consumer behavior and decision making. By the end of the course, you will be able to understand introductory microeconomic theory, solve basic microeconomic problems, and use these techniques to think about a number of policy questions relevant to the operation of the real economy.

FINE ARTS

#605-J, DIGITAL ART
6/24-6/28   9:00-12:00 p.m. $120 by 5/31 $145 after 5/31   No credit

Kickstart your creativity this summer by learning the popular drawing and painting app, Procreate. In just one short week, you will complete 12 mini lessons that are designed to be easy and approachable to help you build

confidence and keep you motivated as you learn the essential features of Procreate. At the end of the course, you will have a gallery of beautiful artwork that you've created (themes of food, plants, animals and objects), and you will have gained valuable practice in digital art techniques and drawing skills. The class is perfect for the complete beginner or anyone who wants to learn Procreate. Required materials: iPad, Procreate app installed, Apple Pencil (1st generation).

LANGUAGE ARTS

#215-J, ELEMENTS OF THE ESSAY

#215-J(a)	6/17-6/21	9:00-11:00 a.m.	$120 by 5/31	$145 after 5/31	No credit
#215-J(b)	6/17-6/21	12:00-2:00 p.m.	$120 by 5/31	$145 after 5/31	No credit

Although this class targets new and returning Jesuit students who need additional help with their essay-writing skills, non-Jesuit students are welcome to attend. The course assumes a basic knowledge of grammar and writing at a 9th-grade level. The focus of the course is enhancing the ability to write clear sentences, developing style, creating and supporting thesis statements, writing coherent paragraphs that develop a topic sentence, practicing the mechanics of academic writing, and expanding on analytical and argumentative writing skills.

#235-J, COLLEGE ESSAY WRITING

#235-J(a)	6/17-6/28	10:00-12:00 p.m.	$190 by 5/31	$215 after 5/31	No credit
#235-J(b)	6/17-6/28	1:00-3:00 p.m.	$190 by 5/31	$215 after 5/31	No credit

Rising seniors will develop strategies and techniques for writing effective essays for the college admissions process. They will discern what admissions officers scrutinize in applicants' essays, and students will analyze a variety of model essays. To receive feedback and to generate ideas, students will have opportunities to conference individually with the instructor. By the end of the course, students will write at least one essay for the Common Application and will complete exercises to generate ideas for other possible essays. The class is not intended for students who are not rising seniors. Jesuit students who complete this course are exempt from completing the Summer College Essay Program that is required for all Jesuit seniors. For more information about this course, email Mr. René Villareal: rvillareal@jesuitportland.org. This course is also offered online. See the "Online" section.

MATHEMATICS

The math courses in this section occur in-person on Jesuit High School's campus. The times associated with each course indicate when students are required to meet in a Jesuit classroom with their instructors. For listings of Online and Self-Paced math courses, see the "Online" and "Self-Paced" sections.

#051-J, MIDDLE SCHOOL PROBLEM-SOLVING

6/17-7/19   9:00-10:30 a.m. $380 by 5/31 $405 after 5/31   No credit

Description: Students will study **3D geometry**, **integers**, **variables**, **expressions**, and **equations** through **conversation**, **problem-solving**, and **mathematical puzzles**. *Mathematical Explorations* courses aim to build math skills and mathematical intuition, as well as mathematical curiosity and appreciation. These courses will provide a foundation for studying high-level mathematics later on. The course will use material from *Art of Problem Solving's Beast Academy 5A*.

Prerequisites: A familiarity with variables, the ability to add and subtract integers and decimals, and the ability to multiply whole numbers with fractions; recommended for rising 6th-grade students and older who can answer **14 or more** of the problems on this placement quiz. The questions below are examples of class discussion topics. They are not prerequisites.

Challenge 1

Lizzie assembles 125 wood cubes to make one large cube. She paints the large cube green on all six of its faces, then disassembles it back into smaller cubes. How many of the smaller cubes do not have any paint on them?

Challenge 2

If $x + y = 7$, what is $3x + 3y - 5$?

Challenge 3

Circle all the expressions below that are ***negative*** for all nonzero values of x.

$$x^2 \quad -x^2 \quad -(x^2) \quad (-x)^2 \quad -(-x)^2$$

Challenge 4

Rosie is 6 years older than her sister Suzie, and Suzie is twice as old as her brother Toby. The sum of all three siblings' ages is 31. How old in years is each sibling?

#095-J, PROBLEM-SOLVING WITH PREALGEBRA: FUNDAMENTALS

6/17-7/19   10:30-12:00 p.m. $355 by 5/31 $380 after 5/31   No credit

This course is for students who seek a deep understanding of numbers as they acquire skills necessary for advancement to algebra 1. This course also offers fun puzzle-solving challenges to current algebra 1 students. Students will strengthen mathematical skills and intuition through conversation, problem-solving, and mathematical puzzles. Topics include **properties of arithmetic, exponents, number theory, fractions, equations, and inequalities**. Students should expect 30 minutes of homework per class.

Prerequisites: Students should be able to apply operations (addition, subtraction, multiplication, and division) on multi-digit numbers, negative numbers, fractions, decimals, and variables; and be willing to work on word problems that involve more than one step. The course is a good choice for students who can answer **22 or more** problems on this placement quiz (some questions have multiple problems).

Challenge 1
Compute the product $25 \cdot (12 \cdot 8)$ in your head.

Challenge 2
What is the sum $5 + 10 + 15 + \ldots + 95 + 100$?

Challenge 3
The squares of two consecutive positive integers differ by 67. What is the smaller of the two integers?

Challenge 4
What is the largest multiple of 12 that can be written using each digit 0, 1, 2,..., 9 exactly once?

Challenge 5
Jack finds the product of three different prime numbers. Is it possible for the sum of the digits of Jack's product to be 18? Why or why not?

Challenge 6
The reciprocals of what three different positive integers have a sum equal to 1?

Challenge 7
If I give my sister 5 dollars, then we will have the same amount of money. If, instead, she gives me 8 dollars, then I'll have twice as much money as she has. How much money does she have?

Challenge 8
A road crew took three days to pave a road. On the first day, they paved $\frac{2}{5}$ of the road, and on the second day, they paved $\frac{1}{3}$ of the road. On the last day, they paved 1500 yards. How many yards long is the road?

#120-J, ALGEBRA I, SEMESTER 1

#120-J(a)	6/17-7/19	8:00-10:00 a.m.	$470 by 5/31	$495 after 5/31	1 Sem credit
#120-J(b)	6/17-7/19	10:00-12:00 p.m.	$470 by 5/31	$495 after 5/31	1 Sem credit

Students build skills to pursue a future of honors level math classes. The class introduces expressions, equations, functions, and the properties of real numbers. Students solve, graph, and write linear equations, functions, and inequalities. The course concludes with a discussion of systems of equations and inequalities. Students should expect one to two hours of homework per class.

Prerequisite: Pre-algebra

Possible fall placement with department permission: Honors Algebra 1/Trig

#125-J, ALGEBRA I, SEMESTER 2

#125-J	6/17-7/19	10:00-12:00 p.m.	$470 by 5/31	$495 after 5/31	1 Sem credit

Students learn about exponents, exponential functions, polynomials, factoring, quadratic equations and functions, radicals, Pythagorean theorem, distance and midpoint formulas, rational equations and functions, and graphing. Students should expect one to two hours of homework per class.

Prerequisites: Fall placement into Honors Algebra 1/Trig, or knowledge of the material covered in #120, Algebra I Semester 1 (above)

Possible fall placement with department permission: Honors Geometry

#138-J, GEOMETRY

#138-J(a)	6/17-7/19	8:00-10:00 a.m.	$470 by 5/31	$495 after 5/31	1 Sem credit
#138-J(b)	6/17-7/19	1:00-3:00 p.m.	$470 by 5/31	$495 after 5/31	1 Sem credit

Students learn about Euclidean geometry and prepare for Algebra 2/Trig. Topics include principles of geometric construction; coordinate geometry; properties of triangles; introduction to logic and proofs; properties of polygons and circles; postulates and theorems; congruence; similarity; area; volume; and right triangle trigonometry. Students should expect two hours of homework per class.

Prerequisites: Algebra I or the following: the ability to manipulate variables to solve linear equations and inequalities, ability to graph linear equations, and familiarity with simple radical expressions

Possible fall placement with department permission: Algebra 2/Trig or Honors Algebra 2/Trig (students should discuss plans for advancement with their instructor before enrolling)

#145-J, AMC 8/10 SEMINAR

6/17-7/19	12:00-1:00 p.m.	$225 by 5/31	$245 after 5/31	No credit

Whether or not students plan to compete in math competitions, solving AMC exam questions builds problem-solving skills, logic, creativity, and patience. Course topics include exponents, logarithms, complex numbers, linear equations, proportions, integers, and quadratic equations. This class emphasizes effort, participation, and improvement rather than the number of questions answered correctly. Students who spend an hour per day on homework will receive the most significant benefit.

The course is for middle school and high school students. The problems will range in difficulty, and students will work in small groups on problems corresponding to their math ability. Middle school students should have a strong understanding of prealgebra.

#148-J, ACCELERATED ALGEBRA II/TRIG

#148-J(a)	6/17-7/19	8:00-10:00 a.m.	$470 by 5/31	$495 after 5/31	1 Sem Credit
#148-J(b)	6/17-7/19	10:00-12:00 p.m.	$470 by 5/31	$495 after 5/31	1 Sem Credit

Students begin with a short review of basic ideas from algebra and geometry, then cover quadratic functions, polynomial functions, and rational exponents. Next, the course discusses the concept of a function, including domain, range, and combinations of functions. Substantial time is spent developing the theory of exponential and logarithmic functions. After a unit on rational functions, the course concludes with one week of trigonometry, from right triangle trig to the unit circle and trigonometric identities. The graphing of functions is emphasized throughout the course. Students taking this course should expect two to three hours of homework per class.

Prerequisites: A strong understanding of Algebra 1 and completion of Geometry

Possible fall placement with department permission: Honors Precalculus (students should discuss plans for advancement with their instructor before enrolling)

#150-J, PRECALCULUS

#150-J(a)	6/17-7/19	8:00-10:00 a.m.	$470 by 5/31	$495 after 5/31	1 Sem credit
#150-J(c)	6/17-7/19	10:00-12:00 p.m.	$470 by 5/31	$495 after 5/31	1 Sem credit

Students study polynomial, rational, exponential, logarithmic, and trigonometric functions. Graphing and the concepts of function, domain, and range are emphasized. The course concludes with an introduction to limits and calculus. Students should expect three hours of homework per class. Students who take Precalculus on campus have shown consistently strong performance in AP Calculus AB.

Prerequisites: Strong understanding of first-year algebra and geometry, as evidenced by one of the following: A grade of A- or better in Geometry Honors or Algebra II or a teacher recommendation

Possible fall placement with department permission: AP Calculus AB (students should discuss plans for advancement with their instructor before enrolling)

#160-J, CALCULUS

6/17-7/19	10:00 a.m.-12:00 p.m.	$470 by 5/31	$495 after 5/31	1 Sem credit

Students begin their study of differential and integral calculus. Topics include limits, derivatives and their applications, integrals, indefinite integrals, Riemann sums, and definite integrals. The class addresses all material covered by the AP Calculus AB exam. Students should expect three hours of homework per class.

Prerequisite: A strong understanding of Precalculus.

Possible fall placement with department permission: AP Calculus BC (students should discuss plans for advancement with their instructor before enrolling)

WORLD LANGUAGE

#240-J, SPANISH I INTRO/REVIEW/SKIP

6/17-7/19	10:00-12:00 p.m.	$470 by 5/31	$495 after 5/31	1 Sem credit

This is a class for middle school students or freshmen who have never studied Spanish or who have limited Spanish knowledge. The course will cover the curriculum of Spanish I. Students in this class may have the opportunity to enter Spanish II in the Fall or they will be able to start Spanish I with a strong foundation.

Online Courses

Courses listed in this section meet in real-time via Zoom. The times associated with each course indicate when students are required to meet virtually with their instructors via Zoom. It is important that students join Zoom promptly so that they are aware of the day's agenda. For listings of Jesuit Campus and Self-Paced courses, see the "Jesuit Campus" and "Self-Paced" sections.

LANGUAGE ARTS

#235-O, COLLEGE ESSAY WRITING

#235-O(a)	6/17-6/28	8:00-10:00 a.m.	$190 by 5/31	$215 after 5/31	No credit
#235-O(b)	7/8-7/19	10:00-12:00 p.m.	$190 by 5/31	$215 after 5/31	No credit

Rising seniors will develop strategies and techniques for writing effective essays for the college admissions process. They will discern what admissions officers scrutinize in applicants' essays, and students will analyze a variety of model essays. To receive feedback and to generate ideas, students will have opportunities to conference individually with the instructor via Zoom. By the end of the course, students will write at least one essay for the Common Application and will complete exercises to generate ideas for other possible essays. The class is not intended for students who are not rising seniors. Jesuit students who complete this course are exempt from completing the Summer College Essay Program that is required for all Jesuit seniors. For more information about this course, email Mr. René Villareal: rvillareal@jesuitportland.org. This course is also offered in-person on Jesuit's campus. See the "Jesuit Campus" section.

MATHEMATICS

The math courses in this section meet in real-time on Zoom. The times associated with each course indicate when students are required to meet virtually with their instructors. Students taking a course for credit will take a final exam on Jesuit's campus on Friday, July 19. For more information about online Math courses, email Dr. John Gorman (jgorman@jesuitportland.org). For listings of Jesuit Campus and Self-Paced math courses, see the "Jesuit Campus" and "Self-Paced" sections.

#170-O, BRIDGE TO AP CALCULUS BC & PREPARATION FOR AP EXAM

6/17-6/28	10:30-1:00 p.m.	$285 by 5/31	$310 after 5/31	No credit

Students briefly review the major topics from AP Calculus AB including limits, differentiation, application of differentiation, integration, fundamental theorem of calculus, and applications of integration. Emphasis will be

placed on learning strategies and becoming more comfortable with AP-style questions (both multiple choice & free response) in preparation for the AP exam. The two most challenging BC topics will be covered: series & polar graphing. The goal of this course is to give students confidence and a solid foundation going into AP Calculus BC next year.

Prerequisite: AP Calculus AB

#186-O, DIFFERENTIAL EQUATIONS

6/17-7/19   6:00-8:00 p.m., Mon-Thurs $380 by 5/31 $405 after 5/31   1 Sem credit

This course provides an introduction to the concepts, solution techniques, and qualitative analysis of ordinary differential equations with applications. The topics are linear differential equations, first-order systems, linear systems, forcing and resonance, and Laplace transforms. The Zoom meetings will be highly interactive, and students are expected to participate in class discussions. The final exam will take place on campus on Friday, July 19, from 10:00 a.m. -12:00 p.m.

Prerequisites: AP Calculus BC and Linear Algebra, or instructor approval

STUDY SKILLS & TEST PREP

#411-O, SAT PREP

6/17-7/5   10:00-12:00 p.m. $285 by 5/31 $310 after 5/31   No credit

This course will help students prepare for math, verbal, and writing sections in small group instruction cohorts. The curriculum is based on the SAT test itself as well as the college-readiness skills it aims to assess. The course will include test-taking skills, strategies, and techniques as well as skill-building activities, tips, and tools. Students will be divided in two groups, focusing on either math or verbal then the other skill area. Students will spend 10 hours of preparation and practice in verbal (reading & writing analysis and skills) and another 10 hours in mathematics skills. Students will be combined in one larger group for the essay writing skill portion. During these last three days, students learn about essay writing skills specific to this test but which can be useful in any essay. Several practice exams are given, scored, and analyzed, including a full essay. This class is for sophomore grade level and higher. Families will need to purchase *College Board Official SAT Study Guide, 2020 Edition* by the first day of class.

Self-Paced Courses

Courses listed in this section are self-paced and online. Students will use text and video resources to complete course work. Students enrolled in Self-Paced courses are required to take midterm and final exams on Jesuit's campus on Wednesday, July 3 and Friday, July 19, respectively. Self-Paced courses are divided into **Independent Study** and **Asynchronous courses**.

Independent Study: This class can be used for advancement only. It is a non-credit course. Students complete course work at their own pace and take an in-person midterm and final exam on Jesuit's campus on Wednesday, July 3 and Friday, July 19, respectively.

Asynchronous: Students have assignments that must be completed by Friday of each week during Summer Session. A student who misses two or more checkpoints will automatically take the course for non-credit, but can still use the class for advancement. Asynchronous students take an in-person midterm and final exam on Jesuit's campus on Wednesday, July 3 and Friday, July 19, respectively.

Please contact Mr. Jason Hildreth (jhildreth@jesuitportland.org) for more information about Self-Paced courses. For listings of Jesuit Campus and Online math courses, see the "Jesuit Campus" and "Online" sections.

MATHEMATICS

#140-A, ACCELERATED GEOMETRY

| 6/17-7/19 | Asynchronous | $940 by 5/31 | $965 after 5/31 | Full-year credit |

#140-I, ACCELERATED GEOMETRY

| 6/17-7/19 | Independent Study | $940 by 5/31 | $965 after 5/31 | No credit |

Accelerated Geometry is an honors course and is not intended for credit recovery. In addition to covering the geometry necessary for Precalculus, this self-paced class covers material from Algebra II/Trig.

Prerequisite: Strong knowledge of Algebra I
Possible fall placement with department permission: Honors Algebra 2/Trig or Honors Precalculus (students should discuss plans for advancement with their instructor before enrolling)

#148-A, ACCELERATED ALGEBRA II/TRIG

| 6/17-7/19 | Asynchronous | $470 by 5/31 | $495 after 5/31 | 1 Sem Credit |

#148-I, ACCELERATED ALGEBRA II/TRIG

| 6/17-7/19 | Independent Study | $470 by 5/31 | $495 after 5/31 | No credit |

Prerequisites: A strong understanding of Algebra 1 and completion of Geometry
Possible fall placement with department permission: Honors Precalculus (students should discuss plans for advancement with their instructor before enrolling)

#150-A, PRECALCULUS

| 6/17-7/19 | Asynchronous | $470 by 5/31 | $495 after 5/31 | 1 Sem credit |

#150-I, PRECALCULUS

| 6/17-7/19 | Independent Study | $470 by 5/31 | $495 after 5/31 | No credit |

Online Precalculus builds on the material covered in Algebra 2/Trigonometry and provides preparation for the study of calculus.

Prerequisites: Strong understanding of first-year algebra and geometry, as evidenced by one of the following: A grade of A- or better in Geometry Honors or Algebra II or a teacher recommendation
Possible fall placement with department permission: AP Calculus AB (students should discuss plans for advancement with their instructor before enrolling)

SUMMER THEATRE FOR ALL AGES!

THE YOUNG PEOPLE'S THEATRE PROJECT

Disney FROZEN JR.

For Students Completing Grades 1 – 8

Day Camp Dates: July 22 – August 3, 2024
Performances: August 2 & 3, 2024

Children's Chorus–Completing Grades 1-4 *(2023-24 School Year)*, **Course #910**
Monday 7/22 – Thursday, 8/1, 9:30 am – 11:30 am (weekdays)
Combined Cast Dress Rehearsal: Friday 8/2, 12pm - 4pm
Dress Rehearsal is followed by a dinner break and 5pm call for a 7pm Friday Performance
Performances Saturday 8/3: Call time 12pm; Performances 2pm & 7pm
Cost $275

Junior Ensemble–Completing Grades 5-8 (*2023-24 School Year***)**, **Course #920**
Monday 7/22 – Thursday 8/1, 12:30 - 4 pm (weekdays)
Combined Cast Dress Rehearsal: Friday 8/2, 12pm – 4pm
Dress Rehearsal followed by a dinner break and 5pm call for a 7pm Friday Performance
Performances Saturday, 8/3: Call time 12pm; Performances 2pm & 7pm
Cost $425

Members of the Children's Chorus will appear onstage as ensemble members in the production of FROZEN, Jr. The Junior Ensemble will appear as the principal cast in the show.
Daytime classes will teach basic theatre skills, leading to their memorable participation in the final production.

**Cast members must be available for ALL scheduled
rehearsals and performances without exception.**

****Please note that eligibility for registration and participation in the Children's Chorus and Junior Ensemble is determined
by the grade the student has completed at the end of the 2023-2024 school year.***

Summer Tech Theatre Program-Grades 7-12, Course #930
Monday 6/10 – Tuesday 6/25 Weekday Classes, 12-4 pm
Wednesday – Thursday 6/26-27 Dress Rehearsal Days
Thursday – Sunday 6/27-30 Performance Days
Cost $295

Work in a hands-on environment, with professional artists and technicians, to create the set,
lighting, and sound design for the final production.
Participants become the technical staff and running crew for the Young People's Theatre Project
Senior Camp performances of SOMETHING ROTTEN, June 27-30.
Tech Theatre students must be available to participate in rehearsals all day
June 26-27, performances July 27-30, and the strike of the set on Sunday, July 30.
Tech Students will have many optional opportunities to work on the production outside of scheduled class times.
In addition, Tech students will have an opportunity to contribute to technical elements of
the Second Stage production of FROZEN, JR.

THE YOUNG PEOPLE'S THEATRE PROJECT PERFORMING ARTS SENIOR OVERNIGHT CAMP

Middle and High School students will form the Senior Ensemble (Principal Cast) of SOMETHING ROTTEN, rehearsing as part of The Young
People's Theatre Project's unique overnight Performing Arts Camp at Camp Caldera in Central Oregon.
Admission to this program is by audition. Auditions take place in March and April.
For further information, email camp@yptproject.org.

For more information about other summer opportunities with The Young People's Theatre Project,
visit www.yptproject.org.