The purpose of the syllabus is to inform you how this course is organized, what the expectations are, and how you will be graded. In addition, there is important information about how the college will operate during severe weather and how the college will communicate with you. The syllabus is not a contract. Instead, it is meant to help you succeed in this course. If any of the content changes during the course term, you will be notified.

Course information:

Course Title: MATH 1920 – Calculus II
Credits: 4
Class Hours: 4

Course Description:

A continuation of MATH 1910 and the second course in the traditional three-course calculus sequence. Topics include a study of the differential and integral calculus of algebraic and transcendental, exponential and logarithmic functions of one independent variable, further exploration of the trigonometric functions, further applications of the definite integral, integration techniques, infinite series, parametric equations, and polar coordinates.

Prerequisite: Math 1910

Instructor Information:

Name:
Email:
Office Phone:
Office Location:
Office Hours:
Instructor Zoom Room link:

Class Session Zoom Link Information (if virtual):

Course Delivery Method

- **On-Campus:** Course meets at a designated Nashville State Campus on *(update to the days, times, and room numbers for your section)*
- **Hybrid:** Course uses a blended format of online instruction where most classes require on-campus meetings. These courses have a designated Nashville State Campus with listed days, times, and room numbers. *(update to the days, times, and room numbers for your section)*
• **Online:** Course is fully online (asynchronous) and has no scheduled on-campus meeting requirements.
• **Virtual:** Course meets for 15 weeks live via Zoom at a set date and time (synchronous). *(update to the days and times for virtual meeting sessions for your section)*

**Required Textbook(s) & Other Materials:**

**Textbook(s):** Calculus, Early Transcendentals, 3rd Edition by Briggs, Cochran, Gillett, & Schulz  
**ISBN:** 9780134763644

**Access Code:** Some instructors may only require a MyLab Math access code that contains an e-text and may be used for homework and/or quizzes.  
*Calculus: Early Transcendentals -- MyLab Math with Pearson eText*  
18-week access MyLab + Instant Access ISBN: 9780135960349  
24-month access MyLab + Instant Access ISBN: 9780134856582


**Supplies:** A graphing calculator is required. The TI-84+ calculator will be the demonstration tool in the classroom. A TI-89 calculator or other software that performs symbolic manipulations may not be used for exams.

Once you have registered for your courses, you should make sure you have the correct textbook and materials for each course. Before courses begin, you can do this by looking up your courses on the bookstore’s website ([https://www.bkstr.com/nscctstore/shop/textbooks-and-course-materials](https://www.bkstr.com/nscctstore/shop/textbooks-and-course-materials)) using your A# or by entering your course information. If you are registered with the Access Center and need an alternate format for the textbook and other course materials, please contact the Access Center at 615-353-3721 or [accesscenter@nscc.edu](mailto:accesscenter@nscc.edu).

**Digital Course Materials:** These ensure you pay less for your course materials and have easy access through D2L throughout the term. When you registered for this course, the charge for these materials appeared on your account. If you decide you do not want to purchase the course materials embedded in NS Online, you can opt out of the program until the end of the second week of classes. If you opt out, you will be responsible for purchasing the required course materials on your own. For more information, please visit [www.nscc.edu/dcm](http://www.nscc.edu/dcm).

**Honors Option:** Honors credit is available in some classes. If you are interested in participating in the Honors Program, please see your instructor within the first four weeks of class.

**Course Outcomes:** At the end of the term, this is what you should know and/or be able to do:

- Solve problems using mathematics and determine if solutions are reasonable.
- Apply mathematical concepts to solve real-life problems using formulas (deduction) and interpret the meaning of the solution.
- Construct meaningful connections (transfer of knowledge) between mathematics and other disciplines.
- Apply technology for mathematical reasoning and problem solving.
- Analyze data/graphs by using mathematical modeling and/or statistical reasoning.
Course Competencies:
The following are detailed course competencies, or specific skills or knowledge, intended to help you achieve the course outcomes:

- Calculate the volumes of solids of revolution using a disk, washer, or shell method.
- Apply techniques of integration to find the antiderivative for products and quotients of algebraic and transcendental functions.
- Represent functions using infinite series, including the application of tests to determine the convergence or divergence of series.
- Solve differential equations using analytical, graphical, and numerical approaches.

Topics to Be Covered:

- Velocity and Net Change (optional)
- Regions Between Curves
- Volume by Slicing
- Volume by Shells
- Length of Curves
- Surface Area
- Basic Integration Approaches
- Integration by Parts
- Trigonometric Integrals
- Trigonometric Substitutions
- Partial Fractions
- Integration Strategies
- Other Methods of Integration
- Numerical Integration
- L’Hopital’s Rule (4.7)
- Improper Integrals
- Basic Ideas of Differential Equations
- Direction Fields and Euler’s Method
- Separable Differential Equations
- Special First-Order Linear Differential Equations
- Modeling with Differential Equations
- An Overview of Sequences and Series
- Sequences
- Infinite Series
- The Divergence and Integral Tests
- Comparison Tests
- Alternating Series
- The Ratio and Root Tests
- Choosing a Convergence Test
- Approximating Functions with Polynomials
- Properties of Power Series
- Taylor Series
- Working with Taylor Series
- Parametric Equations
- Polar Coordinates
**Course Assessments:** We will use the following assessments to demonstrate your understanding, knowledge, and skills:

Your course grade will be determined by homework, quizzes, chapter exams, and a comprehensive final exam. Homework may be assigned in MyLab Math and due dates will be associated with each assignment. Pay close attention to these dates and plan your time accordingly. Homework is worth 10% of your course grade.

Quizzes may be assigned in MyLab Math and have associated due dates. Pay close attention to these dates and plan your time accordingly. Quizzes are worth 10% of your course grade.

There will be four exams covering the course content. **No make-ups will be given for any missed exam.** Each exam is worth 15% of your course grade, so the four exams count 60% of your grade.

**There is a comprehensive final exam that will be taken at the end of the semester.** If the final exam score is higher than your lowest test score, then the final exam will be used to replace the lowest test score. This allows students who miss an exam to use the final exam to replace it. However, any subsequent missed exam will be assigned a grade of 0. The final exam is worth 20% of your course grade.

**Grading Policy:**

Homework: 10%
Quizzes: 10%
Chapter Exams: 60% (15% each)
Final Exam: 20%

**Grading Scale:**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>89.5 ≤ Average ≤ 100</td>
</tr>
<tr>
<td>B</td>
<td>79.5 ≤ Average &lt; 89.5</td>
</tr>
<tr>
<td>C</td>
<td>69.5 ≤ Average &lt; 79.5</td>
</tr>
<tr>
<td>D</td>
<td>59.5 ≤ Average &lt; 69.5</td>
</tr>
<tr>
<td>F</td>
<td>Average &lt; 59.5</td>
</tr>
</tbody>
</table>

**FA**

If you stop attending class or if you are in an online class and stop submitting assignments, but do not turn in a withdrawal form by the deadline, you are still enrolled in class. You will be given a grade of FA, which means you have failed due to not attending class and not completing your assignments. Please refer to the current academic calendar available on the Nashville State web site, looking for the date that indicates it is the “Last Day to Earn F for Attendance (FA).” If you stop attending your course after this date, you will receive an F.

**FN**

An FN is awarded if you have never attended your course or done any of the work in an online course.
Late Work Policy & Make-up Procedures for Missed Assignments and Work:

Attendance Policy

General Policy

(Revise this general policy to the delivery type of the course, online courses would not have absences or tardiness but provide some common sense expectations for student participation and engagement in meeting deadlines)

• Absences in a course may affect your final grade.
• Tardiness may also affect your final grade.
• You are responsible for all work/tests that occur during any missed course session(s) regardless of reason(s) for absence.
• If you are not well enough to attend a course session (class), you must notify the instructor as soon as possible before the scheduled course time.
  o If you are unable to notify an instructor before the scheduled course time, you must contact the instructor as soon as reasonably possible.
• If you have an unavoidable conflict with a scheduled course session, you must notify the instructor before the course session.
  o If you are unable to notify an instructor before the scheduled course time, you must contact the instructor as soon as reasonably possible.

Instructor’s Policy

The attendance policy for this course is:

For financial aid purposes, attendance is measured by participation in the course. Instructors can determine your level of participation in several ways. Some of those ways are:

• continued attendance
• participation in on-ground or virtual class sessions
• participating in D2L as prompted
• responding to an instructor’s email
• posting to a discussion board
• completing and submitting assignments

Technology Statement

• All classes at the College are web enhanced. “Web enhanced” means that components of the course, such as assignments and online discussions, may be located online in the class D2L/NS Online course shell and used in the course, even if the course meets in a classroom on ground.
• You must have access to a computer and an internet connection to complete assignments, engage in online discussions, and access various course materials through D2L/NS Online course shells.
• You may also be required to use free video conferencing platforms (examples: Zoom, Teams, etc.) for course sessions and meetings.
• You will be responsible for appropriate dress while on video. This means that you are expected to dress as if you were in a classroom.
• You will be responsible for a distraction free environment while on video. This means that the professor and others in the course should not be able to hear noise in your home, such as cell phones, TVs, or barking dogs. The best way to do this is to keep yourself on “mute” until you need to speak.
• You will be responsible for making sure your background is neutral. Keep in mind that students and professors come from all around the world, and you are all a part of our community. Therefore, please avoid having images in your background that may be offensive to your classmates.
• Certain publisher materials, such as textbook figures, may not work on cellphones and may require a laptop or a tablet.
• If you have questions or concerns regarding access to a computer or internet resources, please contact your instructor. Additional information is available on the access to internet and technology website.

Computer Labs

Computers are available for all Nashville State students to use at each campus during open hours. Open computer lab availability may vary from campus to campus.

You should check the NSCC website for current hours of operation.

D2L/NS Online and myNSCC

It is your responsibility to check your email in both D2L/NS Online course shells and your @my.nscc.edu (student email) on a regular basis. These are the official communication channels between the college and you. You are responsible for the information communicated through these email channels. D2L/NS Online emails contain specific course information and @my.nscc.edu emails contain important information from college offices, such as Financial Aid.

ADA Compliance Statement

If you need accommodations due to a disability, please do not hesitate to reach out to our Access Center. Disabilities for which you can receive accommodations include documented physical, emotional, and/or learning conditions. Nashville State is committed to supporting your success, and we encourage you to get assistance if needed. If you require accommodations for any courses in which you are enrolled, contact the Access Center at 615.353.3741 or 615.353.3721, or e-mail accesscenter@nscc.edu.

Classroom Misconduct

Disruptive conduct is not allowed in the classroom. Disruptive conduct is any behavior that prevents students from learning and interferes with the ability of the instructor to teach. This may change from course to course; therefore, your individual instructors will give you guidance on what qualifies as “disruptive conduct” in their courses. Please review the Nashville State Student Code of Conduct policy. Please be aware that children are not allowed in class or to be left unattended on campus.
Academic Misconduct

You have started this academic journey to prepare for a future career. Because of this, it is important that you learn the materials being presented in your courses. For this reason, cheating, in any form, robs you of your opportunity to learn and master the material that will enable you to succeed in that future career. Nashville State has a clear Academic Misconduct Policy that you are expected to follow. In addition, your instructors will clarify what Academic Misconduct looks like and the consequences for violations in each course that you take. The instructor has the authority to assign an “F” or a “zero” for such violations or for the term grade. If a student earns a 0 on an exam due to academic misconduct, this 0 grade cannot be replaced by the Final Exam score.

Academic Early Alert System

If you are not doing well in your course, your instructor may send you an Early Alert through your @my.nscc.edu email. This email will go to your academic advisor and Student Success advisor, as well. If you get an Early Alert, contact your instructor immediately. Instructors send these when they want to help you figure out how to get extra support to pass the course. An Early Alert does not mean that you have already failed the course. Rather, it means you are in danger of failing the course if you do not change your learning strategy. Please use an Early Alert to your advantage and as an opportunity to improve your grade.

RAVE Emergency Alert System

You can log in to this free alert system to receive text messages about emergencies related to NSCC campuses through the RAVE app (https://www.getrave.com/login/nscc). The instructions for this are listed below.

- Your RAVE Username is your NSCC email address.
- If you’ve never received an email from RAVE with your password, or if you need to reset your password, select “Forgot your password?” and a new password will be emailed to you.
- Should the RAVE system indicate “user not found”, select Register and create your own RAVE account.

Student Wellness

Your well-being is important to us. With this in mind, the college has several resources available to provide support when needed:

- Free tutoring can assist you beyond the classroom to help you make the most of your college education.
- These resources include NSCC email, scheduling, online courses, textbooks, tech check out and support, computer labs on campuses, academic advising, financial advising, COVID-19 information and procedures on campuses.
- Services that help with bus passes, food, childcare, textbooks, housing, financial counseling, personal counseling, suicide prevention, health insurance.
**Equity Statement**

Nashville State Community College strives to ensure that each student receives what that student needs to be successful, with goals of success beyond the classroom. We understand and practice ideals of equity and inclusion for our students by embracing a full spectrum of experiences, viewpoints, and intellectual approaches in order to overcome barriers to success.

**Inclement Weather & Campus Closings**

You get notices about campus closings in these places: text messages from RAVE and the Nashville State website.

Even when campuses are closed, you are still responsible for completing all assigned work. Check D2L/NS Online for a message from your instructor so you do not miss important assignments and due dates, which may change due to the campus closure.

**Class Cancellation Policy**

Our instructors post messages about cancelling classes in the D2L/NS Online course shells and/or on the classroom door on campus. These messages can be found in the News and Content section or the Email tab in the online shell. Please check these to be sure that you take advantage of opportunities for learning and points toward your grade.