

# Course Syllabus

## Elementary Functions (4 credit hours)

### MTH 1410-10      Fall 2017

---

**Instructor:** Dr. Tugba Karabiyik

**Class Meeting Time:** MWF 12:30 pm - 1:50 pm

**Class Meeting Place:** LDB 216

**Office:** LDB 425

**Phone:** 936-294-2419

**E-mail:** [tugba@shsu.edu](mailto:tugba@shsu.edu)

**Office Hours:** TR 1:00 pm - 2:30 pm, or by appointment

---

**Course Description:** Elementary Functions and their applications, including topics from algebra, trigonometry and analytic geometry, are used to assist in the algebraic and graphical description of the following elementary functions: polynomial, rational, exponential, logarithmic, and trigonometric functions.

**Textbook:** The textbook for this class is available for free online, in web view and PDF format. You can use whichever formats you wish. Web view is recommended - the responsive design works seamlessly on any device. The textbook is [Precalculus from OpenStax, ISBN 1938168348](#) (follow the link.)

**Course objectives:** Students completing this course will be able to:

1. Use function notation and recognize functions as a fundamental mathematical concept.
2. Work with composition of functions.
3. Identify one-to-one and onto functions and compute the inverse of a function.
4. Use simple graphing techniques to understand the shape of a function.
5. Solve equations involving polynomial and rational functions.
6. Solve equations involving exponential and logarithmic functions.
7. Work with elementary functions on the unit circle to solve equations involving trig functions.
8. Work with inverse trigonometric functions.

**Prerequisites:** Students entering this course should be comfortable with elementary algebra and intermediate algebra, function notation, linear equations, and factoring quadratic equations.

**Course Requirements:**

**a. Quizzes:**

- There will be a quiz at the end of the class every Friday.
- If you come in late, you will not be given additional time. Please be on time.
- I will drop the lowest quiz grade.
- If you are tardy and miss the quiz, you will not make it up.
- Quizzes will not be made up after the fact if missed for any reason. I drop the lowest quiz to balance this out.

**b. Online Homework:**

- The online homework is called WebAssign, and can be found at [www.webassign.net](http://www.webassign.net). The cost is about \$30. You will need a class key for enrollment. The class key for this section is **shsu 6854 7606**
- To register for *WebAssign*, go to [www.webassign.net](http://www.webassign.net), click on “I Have a Class Key”, below the login button, and follow the instructions. Registration for the *WebAssign* exercise set with this class costs about \$30. The *WebAssign* exercise set, along with the free worksheets replace the original textbook for this class. That textbook cost students \$160 in 2011 and is now over \$250.
- WebAssign extensions are rarely given on an individual basis. ***Please stay on top of this and feel free to work ahead.***
- If you are struggling with a problem and think that it is a computer issue, the best way to show me is to take a screen shot and email me.
- You will need to have at least a 70% WebAssign average in order for your quiz grade to count for credit. ***Please stay on top of this and feel free to work ahead.***
- WebAssign averages are not automatically updated in the Blackboard gradebook. I will try to update it manually weekly. I do have to enter them *manually* so if you see an obvious transcription error feel free to bring it to my attention.

**c. Homework Worksheet:**

- Class worksheets will be given periodically. Due dates for worksheets will be announced in class and online. They will be taken up promptly at the beginning of class.
- ***There is a no tolerance on late work.*** If you feel you will come to class after the worksheets will be collected, I would encourage you to submit it in person ***before*** it is due.
- The lowest homework worksheet grade will be dropped.

**d. Exams:**

- There will be three exams and a comprehensive final exam.
- You need to bring a valid picture ID to each exam.

**Exam make-up policy:** If you miss an exam, you will be expected to show appropriate cause in writing. If you must miss an exam, I expect you to contact me beforehand. If that is impossible, then you must contact me no later than 24 hours after the exam. If you miss an exam and have not contacted me by this time, you forfeit your right to a make-up.

You cannot make-up an exam, homework assignment or quiz except in cases of **documented** emergencies. Missing assignments are given zero points. Homework assignments/due dates and all exam dates will be posted on Blackboard.

**TEST #1:** Friday, September 22

**TEST #2:** Friday, October 20

**TEST #3:** Friday, November 17

**FINAL:** Monday, December 4, 2017, 1:00 pm- 3:00 pm.

The date/time of the final exam is set by official SHSU policy. Although I do not expect any other exam dates to change, all other dates in this list are tentative and subject to change.

Letter grades will be assigned based on your weighted average according to the following scheme: 90 to 100 = A, 80 to 89 = B, 70 to 79 = C, 60 to 69 = D, and 0 to 59 = F. A grade of D is passing, but does not necessarily satisfy degree requirements. Please keep in mind that **there is no additional curve in this class, and no extra credit.**

#### **Grading Policy:**

<b>WebAssign Average</b>	<b>Worksheet Average</b>	<b>Quizzes</b>	<b>Exam 1</b>	<b>Exam 2</b>	<b>Exam 3</b>	<b>Final Exam</b>
10%	10%	15%	15%	15%	15%	20%

**\*\*\*A final grade of C or better (70% or greater) is required to continue on to Calculus.\*\*\***

#### **Calculators:**

- All exams and quizzes are no calculator of any kind.
- A graphing calculator (such as a TI-83, or equivalent) can be helpful with homework or in class but are not permitted for exams and quizzes.

#### **Miscellaneous Information:**

- a. Cheating is a most serious offense - I will not hesitate to press for the most severe consequence allowed by the University. **YOU WILL ALSO RECEIVE an "F" FOR THE CLASS.**
- b. Issues that are not addressed politely and respectfully will not be addressed.
- c. No hats, headphones, or sunglasses are permitted during Exams or quizzes.
- d. No work, no credit, therefore, show all work. My rule of thumb is, if I cannot do it in my head, it is likely neither could or did you.

- e. Your cell phone needs to be turned off or on silent, not vibrate. Most importantly, it must be out of sight during class. A cell phone out during an exam will be considered cheating. You may not use your cell phone as a calculator.
- f. Please check your campus email regularly or forward your campus email to an email that you check regularly.
- g. Be respectful of the student around you at all times.
- h. Make sure you have read the syllabus carefully because you are responsible for what lies within it.

**Recording Devices:** Recording devices, such as cameras, audio recorders, or video recorders may not be used without prior approval of the instructor.

**Use of Phones and Electronic Devices in Class:** Generally speaking, you may not use cell phones, computers, or other devices capable of communication in class. The one exception is that during lecture periods, you may keep your cell phone on vibrate so that you can receive text messages in case of an emergency. You may not, however, be distracted or distracting to others in checking your text messages in class, and you may not send text messages in class. All electronic devices must be put away for exams. SHSU Academic Policy Statement 100728 states that *even the visible presence of such a device during the test period will result in a zero for that test. Use of these devices during a test is considered de facto evidence of cheating and could result in a charge of academic dishonesty.*

#### **Further Notes:**

**Attendance** - You should attend all classes and are responsible for all announcements, assignments, quizzes, and exams given in class. Attendance and participation in the mathematics class is critical for success. Please bring a notebook to class and take notes of the lecture, discussion and examples worked in class. Writing down these notes (and possibly rewriting them later) is an important part of the learning process.

If you miss a class, then I expect you to get notes from a classmate. I expect you to arrive to class on time. **You should check Blackboard and your email every day.**

- Catching up due to an unexcused absence is not my responsibility; it is yours.
- In the chance that you miss it is a good idea to have exchanged emails and/or phone numbers with your classmates on the first day of class.
- ***IMPORTANT: If you leave early without letting me know before class that there is a valid reason that you need to leave, then whatever was turned in that day (worksheet, quiz, extra credit...) will not be counted for credit.***
- In cases where you do need to leave early and have let me know, please sit close to the door so as not to disrupt anyone on your way out.
- Attendance will be taken daily. ***This class moves way too fast for you to afford missing part of day, much less a whole day or more.***

**Academic Honesty** – The University expects all students to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain

complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action.

<http://www.shsu.edu/~vaf/www/aps/documents/810213.pdf>

***Religious Holy Days*** – Students are excused from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. As a courtesy, it is appreciated if you notify me in advance and in writing of the dates and times that are to be missed so that appropriate arrangements can be made regarding homework and/or exams.

<http://www.shsu.edu/~vaf/www/aps/documents/861001.pdf>

***Students with Disabilities Policy*** – It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail [disability@shsu.edu](mailto:disability@shsu.edu)). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see: <http://www.shsu.edu/dept/academic-affairs/documents/aps/students/811006.pdf>

***Classroom Etiquette*** - Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

<http://www.shsu.edu/students/guide/StudentGuidelines2010-2012.pdf#page=29>

***Visitors in the Classroom*** – Only registered students may attend class. Exceptions can be made on a case-by-case basis. In all cases, visitors must not present a disruption to the class by their attendance.

<http://www.shsu.edu/syllabus/>

***Help*** - Help will be available outside of class from me, from the tutors in Academic Success Center (see <http://www.shsu.edu/dept/fye/tutoring.html>) in Farrington building, room 104.

***Syllabus Chance Policy*** - Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

***Final comment:*** Please feel free to talk to me. I want you to enjoy this class and I want you to do well! Good Luck!