TEXAS SOUTHERN UNIVERSITY

College of Science, Engineering and Technology

# STUDENT HANDBOOK & PLANNER 2016 2017

TSU

TEXAS SOUTHERN UNIVERSITY
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AND TECHNOLOGY (COSET)
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# 2016-2017
# Student Handbook & Planner

**This book property of:**

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The information set forth in this handbook is for informational purposes only and should not be construed as the basis of a contract between a student and Texas Southern University. Information concerning changes in policies, procedures and requirements will be available in the Office of the University Registrar, the Office of Student Services and Instructional Support of the College of Science, Engineering and Technology, and the offices of each academic department of the College. It is especially important that each student notes that it is his or her responsibility to be aware of current graduation requirements for a particular degree program.

# Dean's Message

Welcome to the College of Science, Engineering and Technology (COSET) at Texas Southern University, where you will find exciting educational opportunities in the fields of science, technology, engineering, and mathematics (STEM). In the College of Science, Engineering and Technology, cutting-edge research activities of world-class scholars and top-of-the-line laboratories enhance undergraduate and graduate student learning through their participation in faculty research.

We are changing higher education to reflect the interdisciplinary mastery required for success in the information age. In our ten academic departments and a number of specialized programs and centers of research, we are developing cooperative relationships between disciplines to prepare students with the critical thinking and analytical skills needed for success in the new world economy.

Society has become more complex than ever and cannot fit into single disciplines. Students need broad knowledge of many subjects and an understanding of how all the disciplines come together to explain the phenomena

that we experience and work with today. We must take care of the physical environment we live in while producing sustainable implementations of science, engineering and technology. All of our departments focus on learning outcomes for students, to ensure that the students have high quality education. Students will develop critical thinking skills, communication skills—both written and oral—problem solving skills in an interdisciplinary environment, and research and inquiry skills. All of these capabilities will integrate in the preparation of students to become competitive.

**Lei Yu, Ph.D., P.E.**
*Dean, College of Science, Engineering and Technology*

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# Student Oath

# Student Oath

As a Texas Southern University student, I understand that I am responsible for my educational success.

It is my responsibility to develop my capabilities and improve my academic performance.

It is my responsibility to actively seek help to expand my intellectual skills.

I will take pride in myself, the Texas Southern University legacy and in contributing to enhanced school spirit.

I will take pride in showing respect to the Texas Southern University faculty, staff and fellow students.

I will take pride in the fact that my Texas Southern University education is a privilege.

I accept the challenge to graduate in NO MORE THAN FOUR years.

# Vision & Mission Statement

# Vision Statement

The College of Science, Engineering and Technology (The College) will become one of the nation's preeminent schools of contemporary interdisciplinary science and technology. We will be recognized by the excellence of our programs, the quality of our instruction, our innovative research, and our desire to be a contributing partner to our community, state, nation, and world.

The College will become a leader in producing high quality graduates especially with regards to all under-represented minority groups and students from urban environments. The College will be a leader in undergraduate, graduate and professional education and research in science, technology, engineering, and mathematics (STEM) disciplines and related professions. The College will become a proactive leader in producing highly qualified biology, chemistry, physics, and mathematics teachers and in improving the STEM programs in urban schools. The College will involve students in its research activities; develop strong mentoring programs; and provide creative seminars on current scientific activities as a means of encouraging students to academic and research careers. The College will develop strong academic support activities.

# Mission Statement

The College of Science, Engineering and Technology at Texas Southern University is dedicated to integrating sciences and contemporary technologies, through education, scholarly activities, and community service; meeting the needs of a diverse graduate and undergraduate student population while addressing critical urban issues within a global economy.

As an instructional agent of the University, the College of Science, Engineering and Technology has an additional service mission as stated below:

1. To provide students of varied scholastic levels access to higher education by providing the academic foundations necessary for accessing educational programs at the University.

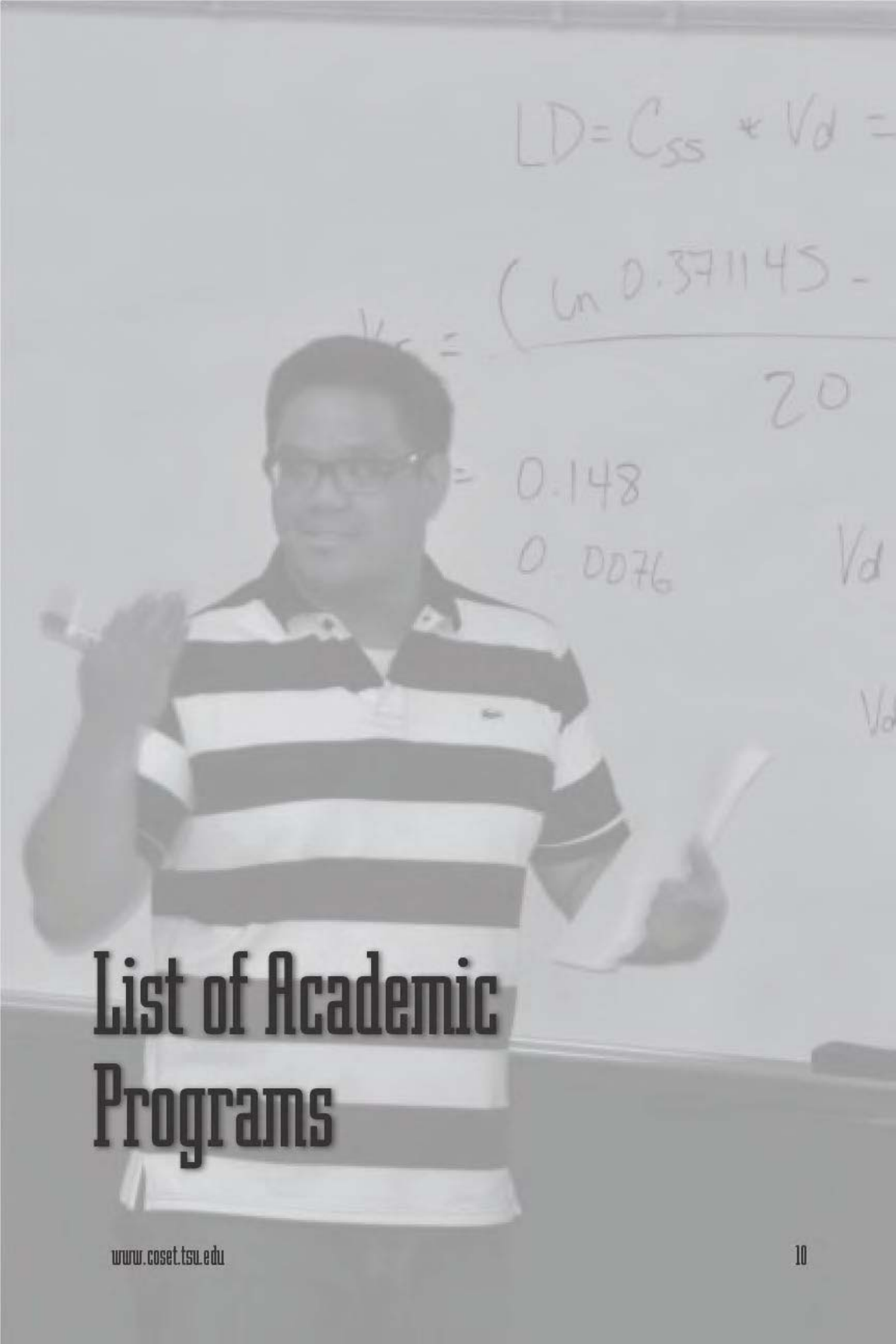
2. To prepare competent professionals and leaders capable of providing effective service and developing solutions to the problems of the nation and the world, especially in urban environs.

In pursuing its missions, the College embraces the following goals:

1. Provide High Quality Instruction
2. Perform Basic and Applied Research
3. Engage in Community Service
4. Optimize enrollment of college-ready undergraduate students and enhance graduate student enrollment
5. Strive for steady increase in external funding
6. Ensure that the College's administrative units function effectively and efficiently so that they support the mission of the College and the University

# Overview

The College of Science, Engineering and Technology at Texas Southern University consists of ten Departments: Department of Aviation Science and Technology, Department of Biology, Department of Chemistry, Department of Computer Science, Department of Engineering, Department of Environmental & Interdisciplinary Science; the Department of Industrial Technologies, Department of Mathematics, Department of Physics, and Department of Transportation Studies. In serving students, these units allow the College to fulfill its mission; and through them, ten undergraduate and six graduate degrees are offered. For detailed information on the six graduate degrees, students are referred to the Graduate School Bulletin of Texas Southern University.




# List of Academic Programs

# Academic Programs

## Aviation Science and Technology

**Undergraduate Degree**

Bachelor of Science in Aviation Science Management

## Biology

**Undergraduate Degree**

Bachelor of Science in Biology

**Graduate Degree**

Master of Science in Biology

## Chemistry

**Undergraduate Degree**

Bachelor of Science in Chemistry

**Graduate Degree**

Master of Science in Chemistry

## Computer Science

**Undergraduate Degree**

Bachelor of Science in Computer Science

**Graduate Degree**

Master of Science in Computer Science

## Engineering

**Undergraduate Degrees**

Bachelor of Science in Civil Engineering

Bachelor of Science in Electrical and Computer Engineering

Bachelor of Science in Civil Engineering Technology

Bachelor of Science in Computer Engineering Technology

Bachelor of Science in Electronics Engineering Technology

## Environmental and Interdisciplinary Science

**Graduate Degrees**

Master of Science in Environmental Toxicology

Doctor of Philosophy in Environmental Toxicology

## Industrial Technologies

**Undergraduate Degree**

Bachelor of Science in Industrial Technology

## Mathematics

**Undergraduate Degree**

Bachelor of Science in Mathematics

## Physics

**Undergraduate Degree**

Bachelor of Science in Physics (through Texas Physics Consortium)

## Transportation Studies

**Undergraduate Degrees**

Bachelor of Science in Maritime Transportation Management and Security

**Graduate Degree**

Master of Science in Transportation Planning and Management

Administratively, the College of Science, Engineering and Technology is headed by the Dean who is assisted by the Associate Dean of Academic Affairs, the Associate Dean of Administration and Development, and the Assistant Dean of Student Services and Instructional Support. Each of the ten departments is headed by a Department Chair who reports to the Dean. All administrative offices, classrooms, and research facilities for the College are primarily located in two facilities designated as follows: the Texas Southern University Science Center and the Leonard H. O. Spearman Technology Building.

# Accreditation

All programs in the College are accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, but some programs have national disciplinary accreditation as well. The Chemistry program is certified by the American Chemical Society. The Electronics Engineering Technology Program in the Department of Engineering is accredited by the Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ETAC of ABET). The undergraduate programs in the Department of Industrial Technologies are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE). The Aviation Science Management program in the Department of Aviation Science and Technology is accredited by ATMAE. The undergraduate flight concentration in the Aviation Science and Technology Department is recognized by the Federal Aviation Administration, under Federal Aviation Regulation, Code of Federal Regulations Part 141.

# COSET Student Organizations

Student participation in a number of professional organizations and societies having student affiliated chapters on the Campus is encouraged. The principle organizations operating in the College are listed below:

- American Association of Airport Executives (AAAE)
- American Society of Civil Engineers (ASCE)
- American Chemical Society Student Chapter (ACS)
- American Design Drafting Association (ADDA)
- Associated General Contractors Student Chapter (AGC)
- Beta Beta Beta Biological Honor Society
- Beta Kappa Chi Scientific Honor Society
- Biology Undergraduate Student Association
- Chinese Students and Scholars Association (CSSA)
- Conference of Minority Transportation Officials (COMTO)
- Cyber Internet Security Student Association

- Environmental Student Club (ESC)
- Environmental Toxicology Graduate Students Association (ETGSA)
- Health Occupations Students of America (HOSA)
- Institute of Transportation Engineers (ITE)
- Intelligent Transportation Society of Texas (ITSA), TSU Student Chapter
- Minority Association of Pre-Medical Students (M.A.P.S.)
- Mobil Application Development (MAD) Group
- National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE)
- National Society of Black Engineers (NSBE) Student Chapter
- National Technical Association (NTA) TSU Student Chapter

- Society of Urban Mathematics (SUM)
- Society of Physics Students (SPS)
- Texas Southern Computing Society (TSCS)
- Texas Southern University Chemistry Club
- Texas Southern University Pre-Nursing Association
- Texas Southern University Maritime Student Association
- Texas Southern University Student Chapter of Society of Environmental Toxicology and Chemistry (SETAC)
- Texas Southern University Society of Young Engineers (SYE)
- The Construction Club
- The National Association of Minority Contractors (NAMC)
- Women in Aviation International, TSU Maroon Tails Chapter

Students should seek additional information on these organizations through the Office of the Dean or through the Department Offices in the College.

# COSET Scholarships & Fellowships

- COSET Merit Scholarship
- Partner Sponsored Scholarships – 713-313-1872
- COSET Faculty & Staff Scholarship – 713-313-1872
- Port of Houston Authority Scholarship – 713-313-1841
- Dwight D. Eisenhower Transportation Fellowship 713-313-1841
- CREST – 713-313-1871
- CTTR Scholarship – 713-313-1925
- LSAMP – 713-313-4278
- STEP- 713-313-1060
- TranLIVE – 713-313-1841
- NSF RISE Scholarships/ Fellowship, Graduate/ Undergraduate Assistantship
- Research Assistantships

# Enrollment & Academic Regulations

# Texas Southern University Enrollment Information and Academic Regulations

## Advising

Academic advising is an integral and necessary part of the higher education process. Faculty advisors in the academic departments have the responsibility of advising those students who have met all admission requirements and have declared majors based on (1) the most current information available to them about departmental, college, and university requirements, and (2) students' interests, needs, and abilities. Although academic advisors will assist students in every way possible, students are expected to accept full responsibility for their academic programs of study, including the satisfactory completion of all requirements.

## Registration Policies and Procedures

All students must register prior to the first class day of each semester or term. Each student is assigned a faculty advisor, who assists in planning a program of study. A roster of academic advisors is available through each major department in the College. Students are registered for, and entitled to attend classes only when they have completed the prescribed procedures, including the payment of fees, which is a part of registration. A student is not registered with the University, and therefore not entitled to University privileges, until fees are paid. All unpaid course selections will be purged from the database of student records after the twentieth class day during a regular semester and after the fourth class day during a summer term.

## Load Limit

The normal load is 15 to 18 semester credit hours. A regular student may not carry more than 18 hours of course work in any long term or semester without the approval of his or her dean and the head of the department in which the student is a major. The maximum load for any student in a regular semester is 21 hours.

Students who are working may be required by the dean to reduce their loads. A student enrolled in a 6-week summer term may not normally carry more than 7 hours. Under special conditions a student may, with permission of his or her dean, carry 8 hours in one 6-week term provided he or she carries no more than 6 hours during the other term of that summer. Under no circumstances may a student earn more than 14 semester hours from any source in the two terms of one summer.

## Full-Time and Part-Time Status

The full-time or part-time status of students is determined by the descriptors listed in the table below.

| | Undergraduate Fall/Spring | Undergraduate 6-week Summer term |
|---|---|---|
| Full-time | 12 or more credit hours | 6 |
| 3/4 time | 9-11 | 4-5 |
| 1/2 time | 6-8 | 3 |
| Less than 1/2 time | 1-5 | 0-2 |
| 1/4 time | 1-3 | X |

## Classification

Undergraduate students' classification is determined as follows:

| Classification | Freshman | Sophomore | Junior | Senior |
|---|---|---|---|---|
| Credit hours earned | 0-29 | 30-59 | 60-89 | 90+ |

## Class Attendance Regulations

All students are required to be present for all class meetings of any course in which they are enrolled. Students are responsible for learning about, becoming knowledgeable of, and complying with the attendance policy stated in the catalog and/or faculty syllabus. Faculty members will provide details on the rules for attendance in their classes in their course syllabi. Faculty members will keep students' attendance records.

## Record keeping

A record of excused and unexcused absences will be maintained by faculty members. When requested by the student, teachers must inform the student who has been absent whether or not make-up work is allowed and whether or not absences jeopardize the student's standing in a class.

## Nonattendance

Students who register for courses for a particular semester must attend their classes starting on the first day of class. Students who have not attended classes up to the 12th day of classes will be reported to the Registrar's office for nonattendance. A student who is reported for non-attendance will be dropped from those classes which he or she has not attended.

Students who have supporting documentation offering explanation for their absence(s) must present their documentation to the instructor who reported them for nonattendance. The instructor may evaluate their supporting documentation and hear their case. If the request for consideration is denied, the student will have to re-register for the course as early as the next semester the class is available. If the instructor approves the student for re-instatement, the instructor will submit a written request for the student's reinstatement to the dean of the school or college. If the dean approves the request for reinstatement, he or she will submit a written request to the Registrar's Office for the student's reinstatement.

## Change of Major

A student in an undergraduate department of the University who can satisfy admission requirements of another undergraduate department within the same college or school may transfer to it with the approval of the department chairs concerned.

## Transferring from One Branch to Another

A student in an undergraduate college or school of the University who can satisfy admission requirements of another undergraduate branch may transfer to it with the approval of the department chairs and deans concerned.

## Changes in Class Schedule (Adds, Drops, and Withdrawals)

A student may make changes in class schedules with the approval of his or her faculty advisor and of the department in which the course is offered. A service fee is charged for each change in program.

Course changes must be made in person under the following conditions:

a. Adding courses. In adding courses, the student must obtain the approval of his or her faculty advisor and the department in which the course is offered.

b. Dropping courses. A student may, for good cause, drop a course with the approval of his or her faculty advisor and the department in which the course is offered under the following provisions:

- During the first twelve days of any semester or the first four days of a summer term, a student may drop a course without having a grade recorded for the course.
- After the twelfth or fourth class day, a student may drop a course without penalty prior to the published deadline. A grade of "W" will be recorded. State legislation enforces a limit of six (6) recorded drops, excluding withdrawals, over the college career of a student who enrolls in a Texas public institution of higher education as a first-time freshman beginning fall 2007 or later. Documentation of good cause must accompany any request for exception.
- After the published deadline, a student will be permitted to drop a course only upon approval of the student's dean and only for urgent and substantiated, nonacademic reasons acceptable to the Dean.

## Withdrawal

To insure his or her possible future standing with the University, a student has the right to withdraw officially. A student wishing to withdraw from the University for the remainder of a session should apply to the dean of his or her school or college for permission. Having secured the dean's permission, the student may receive honorable dismissal through the Registrar's Office after he or she has returned all library books, surrendered his or her activity books, and cleared himself or herself with all offices at the University. A student failing to do these things will not be eligible for restitution of any fees.

The term "honorable dismissal" will not be given unless the student's standing as to conduct and character is such as to entitle him or her to continuance in the University. The grade to be recommended for the student will be in keeping with the regulation for dropping courses.

## Reinstatement

Students who are administratively withdrawn from their classes because of nonpayment of tuition and fees may petition for reinstatement if and only if extraordinary circumstances prevail. Students may obtain the prescribed form in the Registrar's Office and must return the petition with evidence of suitable payment options. The Registrar's Office reviews all such petitions on a case-by-case basis. All approved petitions are subject to a late payment fee and a reinstatement fee.

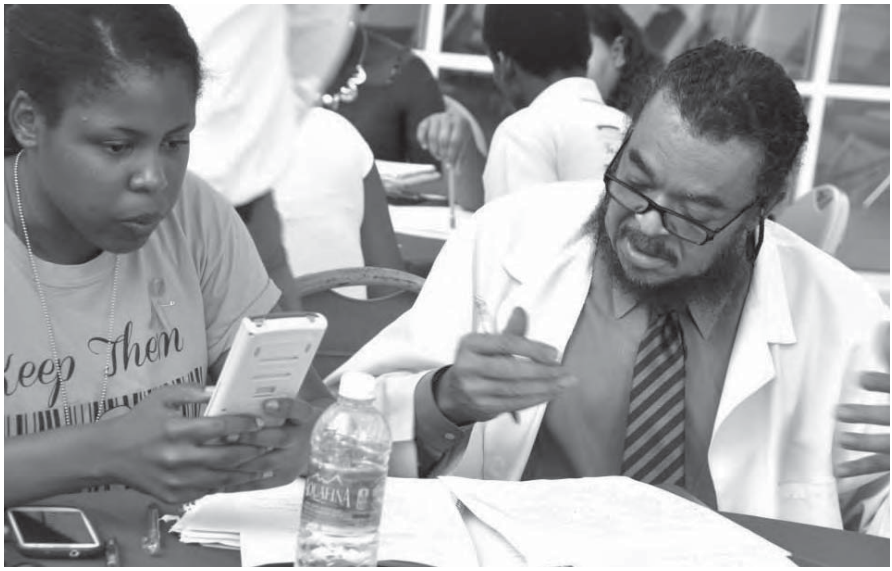
## Course Numbering

Lower division undergraduate courses are numbered from 100 to 299, whereas upper division undergraduate courses are numbered 300 to 499. Upper division courses that may be taken by graduate students for graduate credit upon prior approval of the student's advisor and Dean of the Graduate School are listed in the Graduate Bulletin. Courses numbered 500 and above, except in pharmacy, carry graduate credit and are open only to graduate students.

# Unit of Credit and Grade Point Average

1. The unit of credit is the semester hour. A semester hour represents the equivalent of one recitation or lecture hour per week for one semester.
2. The following grades and quality points per semester hour were used in evaluating the work of students in courses at the University in the past:

| Grade | Meaning | Prior to Fall 1977 | Beginning Fall 1977 |
|---|---|---|---|
| A+, A | Excellent | 3.00 | 4.00 |
| B | Good | 2.00 | 3.00 |
| C | Average | 1.00 | 2.00 |
| D | Poor but Passing | 0 | 1.00 |
| I | Incomplete | 0 | 0 |
| F | Failure | 0 | 0 |
| W | Withdrawal | 0 | 0 |
| S | Satisfactory | | 0 |
| U | Unsatisfactory | | |
| N | No Grade Submitted | | 0 |
| P | Pass | | 0 |



3. Beginning the Fall of 1991, the following grades and quality points were and are now used:

| Grade | Meaning | Grade or Quality Points Per Credit Hour |
|---|---|---|
| A+, A | Excellent | 4.00 |
| A- | Intermediate Grade | 3.67 |
| B+ | Intermediate Grade | 3.33 |
| B | Good | 3.00 |
| B- | Intermediate Grade | 2.67 |
| C+ | Intermediate Grade | 2.33 |
| C | Satisfactory | 2.00 |
| C- | Intermediate Grade | 1.67 |
| D+ | Intermediate Grade | 1.33 |
| D | Marginal | 1.00 |
| D- | Intermediate Grade | 0.67 |
| F | Failure | 0 |
| I | Incomplete | 0 |
| P | Passing | 0 |
| R | In Progress | 0 |
| S | Satisfactory | 0 |
| U | Unsatisfactory | 0 |
| W | Withdrawal | 0 |
| WT | Withdrawal, Test Requirement NOT Fulfilled | 0 |

4. The grade "R," meaning "In Progress," is given only when the work in a course extends beyond the semester or term. It implies satisfactory performance. The grade "R" will not alter the quality point average of the student inasmuch as hours attempted, hours earned, and quality points earned will not be entered in cumulative totals.
5. The grade of "I" is given only when a student's work is satisfactory in quality, but because of reasons beyond his or her control, the work has not been completed. The missing

work may be a major quiz, a final examination, a term paper, or other work. It is not given in lieu of an F. The instructor will stipulate, in writing, at the time the grade is given the conditions under which the "I" may be removed. This temporary grade of "I" is non-punitive and semester hours for the course are not considered in the computation of the quality-point average. Removal must be within one calendar year after the "I" is assigned, or the "I" grade shall become an "F." The grade "I" is not assigned if the student must retake the course. In the event a student who earns a grade of "I" decides to retake the course, the student is required to pay for that course a second time.

6. The grade of "W" is given for a course officially dropped by the student after the twelfth class day of a regular semester or the fourth class day of a summer term and before mid-semester or midterm.
7. In cases where students repeat courses, the last grade earned must be used in the determination of the student's official grade point average at all stages and in the determination of eligibility for graduation.
8. The terms "grade point average (GPA)" and "quality point average" are used interchangeably. In all cases, these averages are calculated by dividing the total quality points earned (see chart above) by the total semester credit hours attempted.

## Grade Notification

Final grades are electronically disclosed to students at the end of each term, no later than fourteen (14) days after all final examinations have been completed. Grades may be viewed in the student MyWeb account online.

## Semester Academic Honors

Academic honors are earned for performance **during each fall and spring semester of enrollment** in accord with requirements summarized below. **Academic honors are not bestowed during summer terms.** Distinctions earned as a result of academic performance become a part of students' permanent records.

| Academic Distinction | Required GPA for Semester | Conditions for Designation of Academic Distinction |
|---|---|---|
| President's List | 3.75 to 4.00 | A minimum of 12 semester credits completed; a minimum cumulative GPA of 3.00 earned; no grades earned below "B"; and no grades of "I", "W", "P", or "S" earned |
| Deans' List | 3.50 to 3.74 | A minimum of 12 semester credits completed |
| Honor Roll | 3.00 to 3.49 | A minimum of 12 semester credits completed |

## Correspondence Courses

Texas Southern University offers no correspondence courses. A student in residence at this institution will be permitted to receive credit for correspondence courses from other institutions only when written permission to take the courses has been granted in advance by the dean of the school or college in which the student

is enrolled. Each request made by a student of the University for credit in courses taken by correspondence will be considered on its own merits by the registrar and the dean involved. Credit earned in a course completed by correspondence will be accepted only if the final examination is taken under the supervision of the Registrar of Texas Southern University.

Not more than twelve (12) semester hours of credit taken in correspondence work may be applied toward the requirements for an undergraduate degree. (No graduate credit will be given for work done by correspondence.) **Further, inasmuch as the last thirty (30) semester hours of credit for an undergraduate degree must be taken in residence, no credit earned by correspondence may be applied toward the requirements for an undergraduate degree after the student has earned ninety-four (94) semester hours of credit applicable toward the requirements for a degree. Any exceptions to this rule must be made by the appropriate undergraduate dean.**

## Scholastic Dishonesty

Students must maintain a high standard of honesty in their academic work. They should avoid all forms of academic dishonesty, especially the following:

- **Plagiarism.** The appropriation of passages, either word for word (or in substance) from the writing of another and the incorporation of these as one's own written work offered for credit.
- **Collusion.** Working with another person in the preparation of notes, themes, reports, or other written work offered for credit unless such collaboration is specifically approved in advance by the instructor.
- **Cheating on an Examination or Quiz.** Giving or receiving, offering or soliciting information, or using prepared material in an examination or testing situation is expressly forbidden. On examinations and quizzes students are expected (a) to remain in the examination room until the examination is finished, (b) to refrain from talking, and (c) to refrain from bringing notes and books into the examination room.

- **Impersonation.** Allowing another person to attend classes, take examinations or to do graded assignments for an enrolled student under his or her name is strictly forbidden.

**A violator of any of the above offenses will incur severe disciplinary action ranging from suspension to expulsion from the University. Specific guidelines will be administered by each dean.**

**Note: Professors may have additional information published in course syllabi.**

## COSET Academic Grievances and Complaints Procedure

Purpose. The following procedures are designed to provide a means for COSET students to petition for review of final course grades alleged to be incorrect. Before filing a formal petition, students are urged to resolve grievances informally with the instructor. Students filing a written appeal shall be expected to abide by the final decision of the COSET committee, as provided for in these procedures.

**Conditions.**

A student may seek a review of a final grade if he or she feels that one of the following conditions applies:

a. A grade was assigned on some basis other than performance in the course, or

b. the standards applied to a grade were not the same as those applied to other students in the course, or

c. the assigned grade represents a substantial and unannounced departure from the instructor's previously stated standards.

**Procedures.**

A student who feels that his or her grade is incorrect should:

1. Confer promptly with the instructor of the course. If the instructor is unavailable and cannot be reached by the student after a reasonable effort, then the student shall consult with the Chair of the department offering the course. If the student and instructor or department Chair are unable to arrive at a mutually agreeable solution, the student may file an appeal within twenty (20) days after the first day of class of the next semester (not including summers) with a standing committee of three (3) tenured faculty members of the department offering the course. If the instructor of the course is a member of the committee, he or she shall be replaced by a tenured faculty member selected by the Chair of the department.
2. File an appeal by submitting to the departmental committee a detailed statement regarding the alleged improper grade, as well as any relevant evidence. The appeal shall be dismissed if
   a. the student has submitted the same or substantially the same complaint to any other grade review procedure,
   b. the appeal is not timely, or
   c. the student has not conferred with the instructor or department Chair before fling the appeal.
3. Allow the departmental committee to take action. If the appeal is not dismissed, the committee shall submit a copy of the student's written appeal to the instructor with a request for a prompt written reply
4. Work toward a mutually agreeable solution in concert with the committee and the instructor. If a mutually agreeable solution is not achieved, the committee shall advise both the student and the instructor that the matter has been sent to the Dean of the academic unit offering the course. The Dean of the academic unit shall convene a committee of three (3) tenured faculty members from departments outside of the department offering the course. This committee shall hold an informal, non-adversarial fact-finding meeting concerning the dispute. Both the student and the instructor shall be entitled

to be present throughout this meeting and to present any evidence deemed relevant, except the student shall not be present during the discussion of any other student. Neither the student nor the instructor shall be accompanied by counsel, an advocate, or a representative. The meeting shall be closed to the public. After the fact-finding meeting, if the majority of the committee finds that the evidence supports the student's complaint, the committee shall take any action thought to rectify the situation, including, but not limited to

- directing the instructor to re-grade the student's work,
- directing the instructor to administer a new final examination or paper in the course,
- directing the cancellation of the student's registration in the course, or
- if no reasonable alternative is available, directing the instructor to award a grade of "pass" in the course.

The committee is not authorized to award a letter grade, or to reprimand, or otherwise take disciplinary action against the instructor. The decision of the committee is final and shall be promptly reported in writing to the parties involved. The dean of the academic unit has the responsibility for implementing the decision of the committee.

# Academic Standards Policy

# COSET Academic Standards Policy

The College of Science, Engineering and Technology has set minimum standards that a student must achieve to remain in good academic standing. **In general these standards are reflective of those established by the University and are as follows:**

The minimum grade point average (GPA) required by the University for awarding the baccalaureate degree is 2.00 for all credit work taken by the student as part of an approved program of study. The grade point average is computed by dividing the total number of quality points earned by the total number of GPA hours (See "Grading System", University Catalog), except for credit hours in courses for which the student received a "W" or "I". For any repeated course, the grade earned only in to last attempt is used in the grade point average calculation.

The academic standing is determined at the end of each semester based on the cumulative grade point average at the end of that semester as well as the grade point average earned during the semester.

**Good Academic Standing:** A student who maintains an cumulative grade point average of 2.00 or higher is in good academic standing.

**Academic Probation:** Students who start the semester in good academic standing but fail to maintain an cumulative grade point average of 2.00 or higher at the end of the semester, will be placed on Academic Probation for the following semester. Students on probation may be removed from Academic Probation at the end of the semester if they earn a cumulative GPA of 2.00 or higher. Students who fail to bring their cumulative GPA to 2.00 or higher at the end of the semester will be placed on Suspension. However, a student on Academic Probation will be considered in good academic standing and will not be suspended at the end of any semester during which a semester GPA of 2.25 or higher has been earned.

Students on Academic Probation:

- May not register for more than 15 semester credit hours.
- MUST seek advisement in the office of their major department.

- Must complete an **Academic Monitoring Form** with their academic advisor and must receive approval from the Chair of their major department.

  **Students on Academic Probation must get advisement in their home (major) department before they will be allowed to enroll. After advisement in their home department, the student enrollment request, and maximum hours allowed is reported to the Office of Student Services and Instructional Support. The student must report to Office of Student Services and Instructional Support in room 150 of the Leonard H. O. Spearman Technology Building for academic monitoring.**

**Suspension:** Students on Academic Probation at the beginning of the semester are suspended if they fail to bring their cumulative GPA to 2.00 or higher by the end of the semester unless they earn a semester GPA of 2.25 or higher. Additionally, any student enrolled in nine or more credit hours and who earns an "F" in all classes will be suspended from the University.

A. The first academic suspension is for a period of at least one long semester (fall or spring).
   - Students placed on academic suspension at the end of a fall semester are suspended for the following spring and are not eligible to re-enroll until the following summer.
   - Students placed on academic suspension at the end of a spring semester are suspended for the following fall and are not eligible to re-enroll until the following spring.
   - Students placed on academic suspension at the end of a summer session are suspended for the following fall and are not eligible to re-enroll until the following spring.

B. Any suspension after the first one will be for a period of one year. At the end of the suspension period, students will need to apply for re-admission to the University provided they can show evidence of increased academic maturity as explained below.

C. While being on suspension, the student must enroll in another institution of higher learning and show evidence of academic

maturity at the end of the suspension period. Such evidence maybe grades from courses taken at that institution. Military service and associated courses / training may also be used as evidence of maturity. The following are evidence of academic maturity based on the suspension period:

- **Academic maturity evidence for one semester suspension:** Completion of 12 credit hours or more in courses that are not repeats of courses previously taken at TSU and a GPA of 2.5 or higher at the end of the enrollment period.
- **Academic maturity evidence for one year suspension:** Completion of 24 credit hours or more in courses that are not repeats of courses previously taken at TSU and a GPA of 2.5 or higher at the end of the enrollment period.

## Academic Suspension and Appeal

Faculty and staff are committed to helping students achieve their academic goals. Nevertheless, some students fail to maintain an adequate grade point average and are academically suspended. Students who believe that extenuating circumstances contributed to their suspension may appeal their case to the University's Committee on Suspension and Readmission. To appeal, students must explain those circumstances in a letter submitted to the committee immediately after receiving notification of suspension. (See also "Grade Appeal, Retention Standards, and Academic Probation" in the Undergraduate Catalog.)

**Readmission from Academic Suspension**

A. Only the Dean of the college may readmit students on academic suspension from Texas Southern University.

B. Readmission from academic suspension is neither automatic nor guaranteed. Students seeking readmission must submit the following to the dean of the college or school in which they wish to earn their degrees:

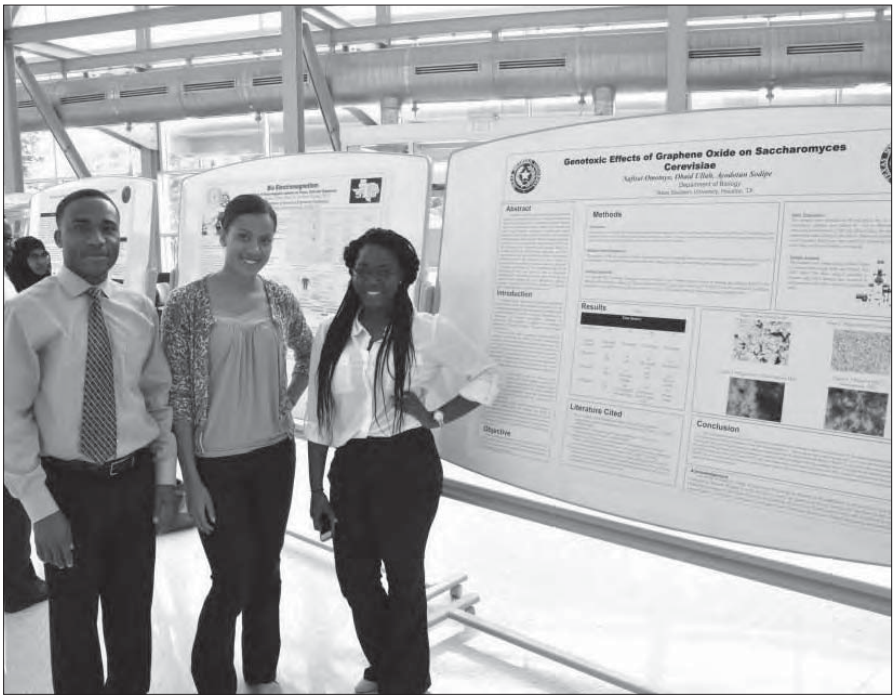
- A written petition justifying their readiness to resume their studies at the University.
- **Official transcripts** showing at least a 2.50 grade point average (with no course having a grade below C) on all college work completed elsewhere while or academic suspension from Texas Southern University.
- Transcripts of all other completed college work.
- Students seeking to change their majors from the college from which they were suspended to another college must submit a "change of major" request along with a petition for readmission from academic suspension to the college of the intended major

In the College of Science, Engineering and Technology, the process is as follows. The major advisor will complete an academic monitoring form and make a recommendation to the department Chair. The Department Chair will review all documentation and make a recommendation to the Office of Student Services and Instructional Support. All documentation will be forwarded to the Office of Student Services and Instructional Support for final consideration. The suspended student will be notified in writing of the decision. Students allowed to return from suspension will be admitted under probationary status. **After advisement in their home department, the student enrollment request, and maximum hours allowed is reported to the Office of Student Services. The student must report**

**to Office of Student Services room 150 of the Leonard Spearman Technology Building for academic monitoring.**

Departments may have additional policies and procedures pertaining to readmission from academic suspension; therefore, students seeking readmission should consult the appropriate college section in the undergraduate catalog or request information from the office of the department chair for specific departmental requirements.

When re-admitted, the student will enter the College with probationary status. Another suspension at the end of the semester of re-admission may be avoided by achieving the minimum cumulative average according to the standards above.




NOTE: Each department may adopt its own set of "Academic Progression Standards" to address the particular academic needs of its students. These standards, however, may be higher than the standards of the College, as set out above, but they may not be lower.

# General College Policies

# General College Policies

1. All students enrolled in the College of Science, Engineering and Technology are required to follow the sequence of courses outlined in their respective degree plans.
2. Students may not enroll in required advanced courses without satisfactorily completing the prerequisites for these courses whether they are offered through the College or through other colleges or schools at the University.
3. Students earning undergraduate degrees from the College may or may not be required to declare a minor; hence, the respective departmental information describing the various degrees should be consulted regarding this matter.
4. For all undergraduate programs offered through the College, a common core of courses (interdisciplinary in nature) is required for completion of the respective degree requirements.
5. **Students may be required to pass a comprehensive exit examination prior to graduation.**
6. All students enrolled in the College are encouraged to secure either cooperative education or internship positions prior to graduation. Further information on these positions may be obtained from either the Office of the Dean of the College of Science, Engineering and Technology, or the University Cooperative Education and Placement Services Center.

# Core Curriculum Courses

| COMPONENT AREA | SCH REQUIRED | COURSES | TCCNS EQUIVALENT |
|---|---|---|---|
| Communication | 6 | ENG 131 (3) and | ENGL 1301 and |
| | | ENG 132 (3) | ENGL 1302 |
| Mathematics | 3 | MATH 132, | MATH 1332, |
| | | MATH 133, | MATH 1314, |
| | | MATH 135, or | MATH 1324, or |
| | | MATH 136 | MATH 2312 respectively |
| Life and Physical Sciences | 6 | One from the following two courses: | |
| | | CHEM 131 (3) | CHEM 1311 |
| | | BIOL 143 (3) | BIOL 1308 |
| | | Plus one from the following courses: | |
| | | CHEM 132 (3) | CHEM 1312 |
| | | BIOL 135 (3) | BIOL 2301 |
| | | GEOL 141 (3) | GEOL 1303 |
| | | PHYS 101 (3) | PHYS 1315 |
| | | PHYS 237 (3) | PHYS 1301 |
| | | PHYS 238 (3) | PHYS 1302 |
| | | PHYS 251 (3) | PHYS 2325 |
| Language, Philosophy & Culture | 3 | One from the following courses: | |
| | | ENG 230 (3) | ENG 2332 |
| | | ENG 231 (3) | ENGL 2333 |
| | | ENG 235 (3) | ENGL 2326 |
| | | ENG 244 (3) | ENGL 2326 |
| Creative Arts | 3 | One from the following courses: | |
| | | MUSI 131 (3) | MUSI 1301 |
| | | MUSI 136 (3) | MUSI 1306 |
| | | MUSI 239 (3) | HUMA 1315 |
| | | THEA 130 (3) | DRAM 1310 |
| | | ART 135 (3) | ARTS 1301 |
| | | ART 137 (3) | HUMA 2323 |
| American History | 6 | HIST 231 (3) and | HIST 1301 and |
| | | HIST 232 (3) | HIST 1302 |

| COMPONENT AREA | SCH REQUIRED | COURSES | TCCNS EQUIVALENT |
|---|---|---|---|
| Government / Political Science | 6 | POLS 235 (3) and | GOVT 2305 and |
| | | POLS 236 (3) | GOVT 2306 |
| Social and Behavioral Sciences | 3 | One from the following courses: | |
| | | ECON 231 (3) | ECON 2301 |
| | | ECON 232 (3) | ECON 2302 |
| | | SOC 157 (3) | SOCI 1301 |
| | | SOC 158 (3) | SOCI 1306 |
| | | SOC 221 (3) | SOCI 2306 |
| | | SOC 238 (3) | ANTH 2346 |
| | | GEOG 132 (3) | GEOG 1303 |
| | | PSY 131 (3) | PSYC 2301 |
| Institutional Options | 6 | Two courses from two different categories: | |
| | | **African American Studies:** | |
| | | HIST 281 (3), or | HIST 2381 |
| | | ART 139 (3), or | HUMA 2319 |
| | | ENG 244 (3), or | ENGL 2326 |
| | | SOC 254 (3) | SOCI 2319 |
| | | | |
| | | **Speech Communication:** | |
| | | SC 135 (3) or | SPCH 1321 or |
| | | SC 136 (3) | SPCH 1315 |
| | | **Foreign Language:** | |
| | | CHNS 131 (3), or | CHIN 1311 |
| | | FR 131 (3), or | FREN 1311 |
| | | SPAN 131 (3) | SPAN 1311 |
| | | **Computer Science:** | |
| | | CS 116 (3), or | COSC 1301 |
| | | (School of Business) | |
| | | MIS 204 (3), or | BCIS 1305 |
| | | (Visual Arts Majors) | |
| | | ART 233 (3), or | ARTS 2313 |
| | | (School of Education) | |
| | | EDCI 210 (3) | COSC 1301 |
| **Total** | **42** | | |

| | Two out of the following three categories: | |
|---|---|---|
| **Communication Option:**<br>- Speech Communication SC135 (3) or SC 136 (3) | SPCH 1321 or SPCH 1315 | |
| - **Foreign Language:**<br>CHNS 131 (3) or higher, or<br>FR 131 (3) or higher, or<br>SPAN 131 (3) or higher | Speech Communication<br>CHIN 1311<br>FREN 1311<br>SPAN 1132 | |
| - **African American Studies:**<br>- HIST 281 (3)<br>- ART 139 (3) or<br>- ENG 244 (3) or<br>- SOC 254 (3) | HIST 2381<br>ENGL 2376 | |

# Graduation Requirements

General Requirements for Undergraduate Degrees

It is the student's responsibility to plan his or her program with the assistance of a University advisor and to register for the proper courses so that all requirements will have been satisfied by the time for graduation. All University advisors of undergraduate students are expected to review each advisee's registration respective to his or her curriculum of study. This review will ensure that courses are taken in proper sequence. All students who are to be classified as juniors must have successfully completed all traditional freshman and sophomore courses in their respective curricula, i.e., courses ordinarily in the 100 and 200 series that are normally taken by freshmen and sophomores.

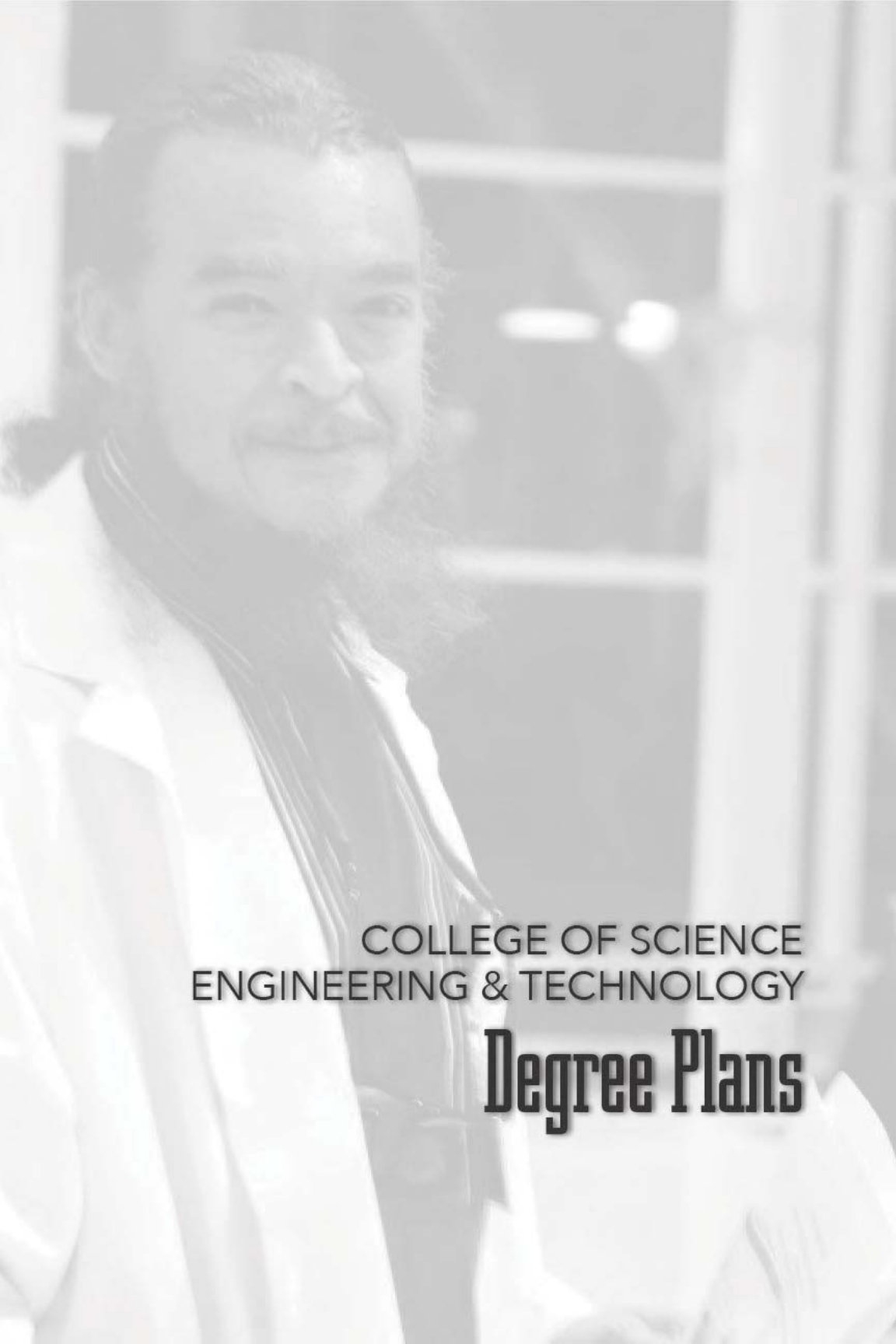
## General Policies and Procedures for Graduation

Not more than thirty (30) semester hours of course credit offered toward a degree may be earned through extension with no more than twelve (12) of these credits earned through correspondence courses (provided these 12 credits have been approved by the appropriate dean). Overall, at least twenty-five percent (25%) of the semester credit hours needed for degree conferral must be earned at the University.

Semester Hours and Quality Point Requirements for Graduation

1. A minimum of 120 credit hours of college credit must be completed for an undergraduate degree.
2. A student must earn a quality point average or GPA of at least 2.00 for all college courses attempted.
3. A student must have grades of "C" or better in all courses taken to fulfill the major requirements.

**Note: more detailed information is available in the university catalog.**



COLLEGE OF SCIENCE
ENGINEERING & TECHNOLOGY

# Degree Plans

# Aviation Science Management–Private Pilot Concentration

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 133 | College Algebra | 3 |
| AVST 103 | Private Pilot Ground | 3 |
| AVST 105 | Private Pilot Flight | 3 |
| AVST 105L | Private Pilot-Flight Lab | 3 |
| | | 15 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| MATH 134 | Trigonometry | 3 |
| AVST 218 | Instrument Ground | 3 |
| AVST 218L | Instrument Flight-Lab | 1 |
| CS 116 | Intro. To Computer Science | 3 |
| SC 135 | Business and Professional Communication | 3 |
| | | 16 |

**FIRST YEAR TOTAL CREDITS: 31**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 131 | General Chemistry | 3 |
| AVST 312 | Commercial Pilot Certificate | 3 |
| AVST 312L | Commercial Pilot Certificate Lab | 1 |
| PHYS 237 | College Physics I | 3 |
| PHYS 213 | College Physics I Lab | 1 |
| MATH 241 | Calculus | 4 |
| POLS 235 | American Political System I | 3 |
| | | 18 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| PHYS 238 | College Physics II | 3 |
| PHYS 214 | College Physics II Lab | 1 |
| AVST 311 | Intermediate Flight | 3 |
| AVST 201 | Flight Meteorology | 3 |
| POLS 236 | American Political Systems II | 3 |
| ENG 2xx | Any 200 Level English | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 34**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| HIST 231 | Soc. Political History US I | 3 |
| AVST 315 | Multi Engine Rating | 3 |
| AVST 315L | Multi-Engine Rating Lab | 1 |
| MGMT 300 | Principles of Management | 3 |
| AVST 305 | Fundamentals of Avionics | 3 |
| BADM 230 | Advance Communication Skills | 3 |
| | | 16 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| HIST 232 | Soc. Political History of US II | 3 |
| MUSIC 239 | Fine Arts and Daily Living | 3 |
| AVST 380 | CFI Airplane | 3 |
| AVST 380L | CFI Airplane Lab | 1 |
| ECON 231 | Principles of Economics I | 3 |
| | | 13 |

**THIRD YEAR TOTAL CREDITS: 29**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| AVST 400 | CFI Instrument | 3 |
| AVST 400L | CFI Instrument Lab | 1 |
| AVST 313 | International Flight Theory | 3 |
| MGMT 330 | Organizational Behavior | 3 |
| AVST 403 | Turbo Prop Familiarization | 3 |
| | | 16 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| AVST 425 | Flight Physiology | 3 |
| ACCT 231 | Principles of Accounting I | 3 |
| AVST 401 | Advance Aerodynamics | 3 |
| AVST 408 | Multi Engine CFI | 3 |
| AVST 408L | Multi Engine CFI Lab | 1 |
| | | 13 |

**FOURTH YEAR TOTAL CREDITS: 26**

**CURRICULUM TOTAL: 120**

# Aviation Science Management

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 133 | College Algebra | 3 |
| AVST 101 | Introduction to Aviation | 3 |
| SC 135/136*** | Pub Addr/Bus Prof Comm III | 3 |
| CS 120 | Introduction to Computers & Problem Solving | 3 |
| | | 15 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| BIOL 143/ CHEM 131 | Survey Life Sci/Gen Chemistry | 3 |
| AVST 102 | Aviation History | 3 |
| MUSIC 239 | Fine Arts | 3 |
| MATH 136 | Pre-Calculus | 3 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 30**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 2XX | Any 200 Level English | 3 |
| PHYS 101 | Principles of Physical Science | 3 |
| POLS 235 | American Political System I | 3 |
| PSY 131 | General Psychology | 3 |
| HIST 231 | US Soc & Pol. History I to 1877 | 3 |
| | | 15 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| POLS 236 | American Political System II | 3 |
| HIST 232 | US Soc & Pol History II from 1877 | 3 |
| BADM 230 | Adv. Communications Skills | 3 |
| ECON 231 | Principles of Econ I | 3 |
| AVST 120 | Transportation Survey | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 30**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| AVST 201 | Flight Meteorology | 3 |
| AVST 351 | Aviation Law | 3 |
| MATH 241 | Calculus | 3 |
| AVST 321 | Air Traffic Control | 3 |
| AVST 321L | Air Traffic Control Lab | 1 |
| AVST Elective ** | | 3 |
| | | 16 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ACCT 231 | Principles of Accounting | 3 |
| AVST 371 | Airport Management | 3 |
| MGSC 239 | Business Statistics I | 3 |
| AVST 381 | Air Carrier Management | 3 |
| AVST Elective ** | | 3 |
| | | 15 |

**THIRD YEAR TOTAL CREDITS: 31**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MGMT. 300 | Principals of Management | 3 |
| AVST 404 | Flight Safety | 3 |
| AVST 409 | General Aviation Management | 3 |
| AVST Elective ** | | 3 |
| AVST Elective ** | | 3 |
| | | 15 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| AVST 495 | Field Work Practicum in Aviation | 5 |
| MGMT 301 | Personnel & Human Resource De | 3 |
| MGMT 330 | Organizational Behavior | 3 |
| AVST Elective ** | | 3 |
| | | 14 |

**FOURTH YEAR TOTAL CREDITS: 29**

**CURRICULUM TOTAL: 120**

# Bachelor of Science Degree in Biology-Comprehensive Concentration

**(with Chemistry Minor)**

## FIRST YEAR

| FIRST SEMESTER | | | SECOND SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| ENG 131 | English I | 3 | ENG 132 | English II | 3 |
| MATH 133 | College Algebra | 3 | MATH 136 | Precalculus | 3 |
| BIOL 131 | Biological Science I Lecture | 3 | BIOL 132 | Biological Science II Lecture | 3 |
| BIOL 111 | Biological Science I Lab | 1 | BIOL 112 | Biological Science II Lab | 1 |
| CHEM 131 | Chemistry I Lecture | 3 | CHEM 132 | Chemistry II Lecture | 3 |
| CHEM 111 | Chemistry I Lab | 1 | CHEM 111 | Chemistry II Lab | 1 |
| SC 135 **or** 136 | Business and Professional Communication **or** Public Address | 3 | MUSIC 131 **or** ART 131 | Intro to Music **or** Drawing and Comp | 3 |
| | | 17 | | | 17 |
| | | | | | **FIRST YEAR TOTAL CREDITS: 34** |

## SECOND YEAR

| THIRD SEMESTER | | | FOURTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| ENG 2XX | Any 200 Level English | 3 | BIOL 232 | Developmental Biology | 3 |
| MATH 241 | Calculus and Analytic Geometry | 4 | BIOL 212 | Developmental Biology Lab | 1 |
| BIOL 231 | Cell Biology Lecture | 3 | CHEM 232 | Organic Chemistry II Lecture | 3 |
| BIOL 211 | Cell Biology Lab | 1 | CHEM 212 | Organic Chemistry II Lab | 1 |
| CHEM 211 | Organic Chemistry I Lab | 1 | CS 116 | Computer Science I | 3 |
| CHEM 231 | Organic Chemistry I Lecture | 3 | HIST 232 | Social & Political History of the United States since 1877 | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 | | | |
| | | 18 | | | 14 |
| | | | | | **SECOND YEAR TOTAL CREDITS: 32** |

## THIRD YEAR

| FIFTH SEMESTER | | | SIXTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| BIOL 338 | Genetics | 3 | BIOL 347 | Microbiology | 4 |
| BIOL 340 | Biochemistry of Biological Cmpd | 3 | PHYS 214 | College Physics Lab II | 1 |
| BIOL 341 | Organismic Biology | 4 | PHYS 238 | College Physics II | 3 |
| PHYS 213 | College Physics Lab I | 1 | POLS 236 | American Political System III | 3 |
| PHYS 237 | College Physics I | 3 | PSY 131 **or** SOC 157 **or** 158 | Intro to Psychology **or** Sociology **or** Contemporary Social Issues | 3 |
| POLS 235 | American Political Systems I | 3 | | | |
| | | 17 | | | 14 |
| | | | | | **THIRD YEAR TOTAL CREDITS: 31** |

## FOURTH YEAR

| SEVENTH SEMESTER | | | EIGHTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| BIOL 443 | Molecular Biology | 4 | BIOL 450 | Molecular Genetics | 3 |
| BIOL 460 | Biostatistics | 3 | BIOL 454 | Immunology | 3 |
| BIOL 499 | Seminar | 1 | BIOL | Electives | 6 |
| CHEM 322 | Quantitative Chemistry Lab | 2 | | | |
| CHEM 332 | Quantitative Chemistry Lecture | 3 | | | |
| | | 13 | | | 12 |
| | | | | | **FOURTH YEAR TOTAL CREDITS: 25** |
| | | | | | **CURRICULUM TOTAL: 122** |

# Bachelor of Science Degree in Biology–Pre-Health Professional Concentration

**(with Chemistry Minor)**

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 133 | College Algebra | 3 |
| BIOL 131 | Biological Science I Lecture | 3 |
| BIOL 111 | Biological Science I Lab | 1 |
| CHEM 131 | Chemistry I Lecture | 3 |
| CHEM 111 | Chemistry I Lab | 1 |
| SC 135 **or** 136 | Business and Professional Communication **or** Public Address | 3 |
| | | 17 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| MATH 136 | Precalculus | 3 |
| BIOL 132 | Biological Science II Lecture | 3 |
| BIOL 112 | Biological Science II Lab | 1 |
| CHEM 132 | Chemistry II Lecture | 3 |
| CHEM 111 | Chemistry II Lab | 1 |
| MUSIC 131 **or** ART 131 | Intro to Music **or** Drawing and Comp | 3 |
| | | 17 |

**FIRST YEAR TOTAL CREDITS: 34**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 2XX | Any 200 Level English | 3 |
| MATH 241 | Calculus and Analytic Geometry | 4 |
| BIOL 231 | Cell Biology Lecture | 3 |
| BIOL 211 | Cell Biology Lab | 1 |
| CHEM 211 | Organic Chemistry I Lab | 1 |
| CHEM 231 | Organic Chemistry I Lecture | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| | | 18 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| BIOL 232 | Developmental Biology | 3 |
| BIOL 212 | Developmental Biology Lab | 1 |
| CHEM 232 | Organic Chemistry II Lecture | 3 |
| CHEM 212 | Organic Chemistry II Lab | 1 |
| CS 116 | Computer Science I | 3 |
| HIST 232 | Social & Political History of the United States since 1877 | 3 |
| | | 14 |

**SECOND YEAR TOTAL CREDITS: 32**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| BIOL 338 | Genetics | 3 |
| BIOL 340 | Biochemistry of Biological Cmpd | 3 |
| BIOL 341 | Organismic Biology | 4 |
| PHYS 213 | College Physics Lab I | 1 |
| PHYS 237 | College Physics I | 3 |
| POLS 235 | American Political Systems I | 3 |
| | | 17 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| BIOL 347 | Microbiology | 4 |
| PHYS 214 | College Physics Lab II | 1 |
| PHYS 238 | College Physics II | 3 |
| POLS 236 | American Political System III | 3 |
| PSY 131 **or** SOC 157 **or** 158 | Intro to Psychology **or** Sociology **or** Contemporary Social Issues | 3 |
| | | 14 |

**THIRD YEAR TOTAL CREDITS: 31**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| BIOL 443 | Molecular Biology | 4 |
| BIOL 460 | Biostatistics | 3 |
| CHEM 322 | Quantitative Chemistry Lab | 2 |
| CHEM 332 | Quantitative Chemistry Lecture | 3 |
| | | 13 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| BIOL 441 | Histology Lecture/Lab | 4 |
| BIOL 447 | Human Physiology | 3 |
| BIOL 452 | Intermediary and Cellular Metabolism | 3 |
| BIOL 454 | Immunology Lecture/Lab | 3 |
| | | 13 |

**FOURTH YEAR TOTAL CREDITS: 25**

**CURRICULUM TOTAL: 122**

# 2-Year Pre-Nursing Curriculum

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 133 | College Algebra | 3 |
| BIOL 135 | Human Anatomy & Physiology | 3 |
| BIOL 135L | Human Anatomy & Physiology Lab | 1 |
| SOC 157 | Introduction to Sociology | 3 |
| | | 13 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| BIOL 136 | Human Anatomy & Physiology II | 3 |
| BIOL 136L | Human Anatomy & Physiology Lab II | 1 |
| BIOL 246 | Microbiology | 4 |
| CHEM 131 | General Chemistry I Lecture | 3 |
| CHEM 111 | General Chemistry I Lab | 1 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 28**

### FIRST SUMMER SESSION

| COURSE | | HRS |
|---|---|---|
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| POLS 235 | American Political Systems I | 3 |
| | | 6 |

### SECOND SUMMER SESSION

| COURSE | | HRS |
|---|---|---|
| HIST 232 | Social & Political History of the United States to 1877 | 3 |
| POLS 236 | American Political Systems II | 3 |
| | | 6 |

**SUMMER TOTAL CREDITS: 12**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| PSY 131 | General Psychology | 3 |
| NUTR 235 | Introduction to Nutrition | 3 |
| PHIL 231 | Introduction to Philosophy | 3 |
| SOCW 345 | Human Behavior in Social Environment I | 3 |
| | | 12 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| PSY 234 | Elementary Statistics | 3 |
| CS 116 | Introduction to Computer Science | 3 |
| SC 135 **or** 136 | Business and Professional Communication **or** Public Address | 3 |
| | Visual & Performing Arts | 3 |
| | | 12 |

**SECOND YEAR TOTAL CREDITS: 24**

**CURRICULUM TOTAL: 64**

# Bachelor of Science Degree in Chemistry-American Chemical Society (ACS)

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 136 | Precalculus Mathematics | 3 |
| CHEM 131 | General Chemistry I Lecture | 3 |
| CHEM 111 | General Chemistry I Lab | 1 |
| BIOL 131 | Biological Science I Lecture | 3 |
| BIOL 111 | Biological Science I Lab | 1 |
| | | 14 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| CHEM 132 | General Chemistry II Lecture | 3 |
| CHEM 112 | General Chemistry II Lab | 1 |
| BIOL 132 | Biological Science II Lecture | 3 |
| BIOL 112 | Biological Science II Lab | 1 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 29**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 231 | Organic Chemistry I Lecture | 3 |
| CHEM 211 | Organic Chemistry I Lab | 1 |
| ENG 2XX | Any 200 Level English | 3 |
| MATH 242 | Calculus & Analytic Geometry II | 4 |
| CS 116 | Computer Science I | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| | | 17 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 232 | Organic Chemistry II Lecture | 3 |
| Chem 212 | Organic Chemistry II Lab | 1 |
| MATH 243 | Calculus & Analytic Geometry III | 4 |
| CS 117 | Computer Science II | 3 |
| HIST 232 | Social & Political History of the United States since 1877 | 3 |
| | Elective | 3 |
| | | 17 |

**SECOND YEAR TOTAL CREDITS: 34**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 332 | Quantitative Analysis Lecture | 3 |
| CHEM 322 | Quantitative Analysis Lab | 2 |
| MATH 251 | Differential Equations | 3 |
| POLS 235 | American Political System I | 3 |
| PHYS 251 | University Physics I Lecture | 3 |
| PHYS 217 | University Physics I Lab | 1 |
| | | 15 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 445 | Biochemistry Lecture | 3 |
| CHEM 445 | Biochemistry Lab | 1 |
| POLS 236 | American Political System II | 3 |
| PHYS 252 | University Physics II Lecture | 3 |
| PHYS 218 | University Physics II Lab | 1 |
| PSY 131 **or** SOC 157 | Intro to Psychology **or** Sociology | 3 |
| MUSI 131 **or** ART 131 **or** THEA 130 | Intro to Music **or** Drawing & Comp I **or** Introduction to Theatre | 3 |
| | | 17 |

**THIRD YEAR TOTAL CREDITS: 32**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 431 | Physical Chemistry I Lecture | 3 |
| CHEM 411 | Physical Chemistry I Lab | 1 |
| CHEM 450 | Inorganic Chemistry I | 3 |
| CHEM 454 | Research | 3 |
| CHEM 499 | Seminar | 1 |
| SC 135 **or** 136 | Business & Professional Communication **or** Public Address | 3 |
| | | 14 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 432 | Physical Chemistry II Lecture | 3 |
| CHEM 412 | Physical Chemistry II Lab | 1 |
| CHEM 451 | Inorganic Chemistry II | 3 |
| CHEM 453 | Instrumental Analysis | 3 |
| CHEM 4xx | | 3 |
| | | 13 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 122**

# Bachelor of Science Degree in Chemistry- Pre-Medical and Pre-Dental Concentration

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 136 | Precalculus Mathematics | 3 |
| CHEM 131 | General Chemistry I Lecture | 3 |
| CHEM 111 | General Chemistry I Lab | 1 |
| BIOL 131 | Biological Science I Lecture | 3 |
| BIOL 111 | Biological Science I Lab | 1 |
| | | 14 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| CHEM 132 | General Chemistry II Lecture | 3 |
| CHEM 112 | General Chemistry II Lab | 1 |
| BIOL 132 | Biological Science II Lecture | 3 |
| BIOL 112 | Biological Science II Lab | 1 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 29**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 231 | Organic Chemistry I Lecture | 3 |
| CHEM 211 | Organic Chemistry I Lab | 1 |
| ENG 2XX | Any 200 Level English | 3 |
| MATH 242 | Calculus & Analytic Geometry II | 4 |
| CS 116 | Computer Science I | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| | | 17 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 232 | Organic Chemistry II Lecture | 3 |
| Chem 212 | Organic Chemistry II Lab | 1 |
| | Elective | 3 |
| CS 117 | Computer Science II | 3 |
| HIST 232 | Social & Political History of the United States since 1877 | 3 |
| MUSI 131 **or** ART 131 **or** THEA 130 | Intro to Music **or** Drawing & Comp I **or** Introduction to Theatre | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 33**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 332 | Quantitative Analysis Lecture | 3 |
| CHEM 322 | Quantitative Analysis Lab | 2 |
| POLS 235 | American Political System I | 3 |
| PHYS 213 | College Physics I Lab | 1 |
| PHYS 237 | College Physics I Lecture | 3 |
| PSY 131 **or** SOC 157 | Intro to Psychology **or** Sociology | 3 |
| | | 15 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 445 | Biochemistry Lecture | 3 |
| CHEM 445 | Biochemistry Lab | 1 |
| POLS 236 | American Political System II | 3 |
| PHYS 214 | College Physics II Lab | 1 |
| PHYS 238 | College Physics II Lecture | 3 |
| BIOL 211 | Cell Biology Lab | 1 |
| BIOL 231 | Cell Biology Lecture | 3 |
| CHEM 499 | Seminar | 1 |
| | | 16 |

**THIRD YEAR TOTAL CREDITS: 31**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 431 | Physical Chemistry I Lecture | 3 |
| CHEM 411 | Physical Chemistry I Lab | 1 |
| CHEM 450 | Inorganic Chemistry I | 3 |
| BIOL 460 | Biostatistics | 3 |
| SC 135 **or** 136 | Business & Professional Communication **or** Public Address | 3 |
| | | 13 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 432 | Physical Chemistry II Lecture | 3 |
| CHEM 412 | Physical Chemistry II Lab | 1 |
| CHEM 451 | Inorganic Chemistry II | 3 |
| CHEM 453 | Instrumental Analysis | 3 |
| BIOL 245 | Human Anatomy & Physiology | 4 |
| | | 14 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 122**

# Bachelor of Science Degree in Computer Science-General CS Concentration

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 136 | Precalculus | 3 |
| CHEM 131 or BIOL 143 | General Chemistry & Lab I or Survey of Life Science | 3 |
| MUSIC 131 or ART 131 | Intro to Music or Drawing and Comp | 3 |
| CS 120 | Introduction to Computers and Problem Solving" | 3 |
| | | 15 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| CS 124 | Fund of Machine Comp | 3 |
| CS 140 | Computer Programming in Java | 3 |
| SC 135 or 136 | Business & Professional Communication or Public Address | 3 |
| | | 16 |

**FIRST YEAR TOTAL CREDITS: 31**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 241 | Object Oriented Using C++ | 3 |
| CS 243 | Computer Organization | 3 |
| MATH 242 | Calculus & Analytic Geometry. II | 4 |
| PHYS 213 | College Physics Lab I | 1 |
| PHYS 237 | College Physics I | 3 |
| ENG 2XX | Any 200 Level ENG may be selected | 3 |
| | | 17 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 246 | Data & File Structures | 3 |
| CS 248 | Theory of Computation | 3 |
| CS 250 | Computer Networks Fundamentals | 3 |
| MATH 250 | Linear Algebra | 3 |
| PHYS 214 | College Physics Lab II | 1 |
| PHYS 238 | College Physics II | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 33**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 342 | Programming Languages and Design | 3 |
| CS 343 | Microprocessors Design | 3 |
| POLS 235 | American Political Systems I | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| | Elective Course | 3 |
| | | 15 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 346 | Database Management Systems | 3 |
| CS 300/400 | Computer Science Elective | 3 |
| POLS 236 | American Political Systems II | 3 |
| HIST 232 | Social & Political History of the United States since 1877 | 3 |
| ECON 231 | Principles of Economics I | 3 |
| | | 15 |

**THIRD YEAR TOTAL CREDITS: 30**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 444 | Operating Systems | 3 |
| CS 415 | Computer Ethics and Society | 3 |
| CS 400/500 | Computer Science Elective | 3 |
| MATH 473 | Probability and Statistics | 3 |
| | Elective Course | 3 |
| | | 15 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 456 | Software Engineering | 3 |
| CS 499 | Capstone Project | 3 |
| CS 400/500 | Computer Science Elective | 3 |
| | Elective Course | 3 |
| | | 12 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 121**

# Bachelor of Science Degree in Computer Science-Networking Concentration

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | English I | 3 |
| MATH 136 | Precalculus | 3 |
| CHEM 131 or BIOL 143 | General Chemistry I or Survey of Life Science | 3 |
| MUSIC 131 or ART 131 | Intro to Music or Drawing and Comp | 3 |
| CS 120 | Introduction to Computers and Problem Solving" | 3 |
| | | 15 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| CS 124 | Fund of Machine Comp | 3 |
| CS 140 | Computer Programming in Java | 3 |
| SC 135 or 136 | Business & Professional Communication or Public Address | 3 |
| | | 16 |

**FIRST YEAR TOTAL CREDITS: 31**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 241 | Object Oriented Using C++ | 3 |
| CS 243 | Computer Organization | 3 |
| MATH 242 | Calculus & Analytic Geometry. II | 4 |
| PHYS 213 | College Physics Lab I | 1 |
| PHYS 237 | College Physics I | 3 |
| CS 250 | Computer Networks Fundamentals | 3 |
| | | 17 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 246 | Data & File Structures | 3 |
| CS 248 | Theory of Computation | 3 |
| CS 251 | Internetworking & Routing Basics | 3 |
| MATH 250 | Linear Algebra | 3 |
| PHYS 214 | College Physics Lab II | 1 |
| PHYS 238 | College Physics II | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 33**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 342 | Programming Languages and Design | 3 |
| CS 346 | Database Management Systems | 3 |
| CS 350 | Local Area Networks Fundamentals | 3 |
| POLS 235 | American Political Systems I | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| | | 15 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 343 | Microprocessors Design | 3 |
| CS 351 | Wide Area Networks Technologies | 3 |
| POLS 236 | American Political Systems II | 3 |
| HIST 232 | Social & Political History of the United States since 1877 | 3 |
| ENG 2xx | Any 200 Level ENG may be selected | 3 |
| | | 15 |

**THIRD YEAR TOTAL CREDITS: 30**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 415 | Computer Ethics and Society | 3 |
| CS 450 | Network Management and Security | 3 |
| CS 400/500 | Computer Science Elective | 3 |
| MATH 473 | Probability and Statistics | 3 |
| ECON 231 | Principles of Economics I | 3 |
| | | 15 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CS 444 | Operating Systems | 3 |
| CS 451 | Introduction to Wireless and Mobile Networks | 3 |
| CS 456 | Software Engineering | 3 |
| CS 499 | Capstone Project | 3 |
| | | 12 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 121**

# Bachelor of Science Degree in Civil Engineering

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | Freshman English I | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| CHEM 131 | General Chemistry I | 3 |
| CHEM 111 | General Chemistry I Lab | 1 |
| CIVE 141 | Civil Engineering Materials | 3 |
| CIVE 141L | Civil Engineering Materials Lab | 1 |
| CIVE 110 | Intro to Civil Engineering | 1 |
| | | 16 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | Freshman English II | 3 |
| MATH 242 | Calculus & Analytic Geometry II | 4 |
| MUSIC 239 | Fine Arts in Daily Living | 3 |
| ENGR 131 | Engineering Graphics | 3 |
| CIVE 223 | Hydrology and Water Resources | 3 |
| | | 16 |

**FIRST YEAR TOTAL CREDITS: 32**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 2xx | Any 200 Level English | 3 |
| MATH 243 | Calculus & Analytic Geometry III | 4 |
| CIVE 231 | Plane Surveying | 3 |
| CIVE 232 | Statics | 3 |
| PHYS 251 | University Physics I | 3 |
| PHYS 217 | University Physics I Lab | 1 |
| | | 17 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 251 | Differential Equations | 3 |
| MATH 345 | Applied Math and Statistics | 3 |
| CIVE 224 | Geotechnical Engineering | 3 |
| CIVE 224L | Geotechnical Engineering Lab | 1 |
| CIVE 233 | Dynamics | 3 |
| PHYS 252 | University Physics II | 3 |
| PHYS 218 | University Physics II Lab | 1 |
| | | 17 |

**SECOND YEAR TOTAL CREDITS: 34**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CIVE 301 | Environmental Engineering | 3 |
| CIVE 301L | Environmental Engineering Lab | 1 |
| CIVE 332 | Applied Fluid Mechanics | 3 |
| CIVE 334 | Transportation Engineering | 3 |
| CIVE 336 | Strength of Materials | 3 |
| POLS 235 | American Political System I | 3 |
| | | 16 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CIVE 333 | Hydraulics Engineering | 3 |
| CIVE 338 | Structural Analysis | 3 |
| CIVE 434 | Water & Wastewater Engineering | 3 |
| ENGR 310 | Intro to Project Management | 1 |
| HIST 231 | Social & Political History of U.S. to 1877 | 3 |
| POLS 236 | American Political System II | 3 |
| | | 16 |

**THIRD YEAR TOTAL CREDITS: 32**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CIVE 339 | Reinforced Concrete Design | 3 |
| CIVE 340 | Structural Steel Design | 3 |
| ECON 231 | Principles of Economics I | 3 |
| HIST 232 | Social & Political History of U.S. since 1877 | 3 |
| SC 135 | Business and Prof. Communication | 3 |
| ***Technical Elective 3xx or 4xx | | 3 |
| | | 18 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CIVE 430 | Engr Practicum or **CIVE 400 | 6 |
| ***Technical Elective 3xx or 4xx | | 3 |
| | | 9 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 125**

# Bachelor of Science in Civil Engineering Technology

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 111 | General Chemistry I Lab | 1 |
| CHEM 131 | General Chemistry I | 3 |
| ENG 131 | Freshman English I | 3 |
| ENGR 131 | Engineering Graphics | 3 |
| MATH 133 | College Algebra | 3 |
| CIVT 141 | Civil Engineering Materials | 3 |
| | | 16 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| SC 135 | Business & Professional Communication | 3 |
| CIVT 224 | Geotechnical Engineering | 3 |
| ENG 132 | Freshman English II | 3 |
| MATH 134 | Plane Trig. or MATH 136 Precal. | 3 |
| PHYS 237 | College Physics I | 3 |
| PHYS 215 | College Physics I Lab | 1 |
| | | 16 |

**FIRST YEAR TOTAL CREDITS: 32**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 2xx | Any 200 Level English | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| PHYS 238 | College Physics II | 3 |
| PHYS 216 | College Physics II Lab | 1 |
| CIVT 231 | Plane Surveying | 3 |
| CIVT 232 | Statics | 3 |
| | | 17 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CIVT 223 | Hydrology and Water Resources | 3 |
| CIVT 233 | Dynamics | 3 |
| SOC 157 | Introduction to Sociology | 3 |
| MUSIC 239 or ART 131 | Intro to Music or Drawing and Comp | 3 |
| MATH 242 | Calculus & Analytic Geometry II | 4 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 33**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| HIST 231 | Social & Political History of U.S. to 1877 | 3 |
| CIVT 301 | Environmental Engineering | 3 |
| CIVT 332 | Applied Fluid Mechanics | 3 |
| CIVT 334 | Transportation Engineering | 3 |
| CIVT 338 | Strength of Materials | 3 |
| | | 15 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| HIST 232 | Social & Political History of US. Since 1877 | 3 |
| CIVT 335 | Geometric Design of Highway | 3 |
| CIVT 333 | Hydraulics Engineering | 3 |
| CIVT 336 | Structural Analysis | 3 |
| CIVT 434 | Water and Wastewater Engineering | 3 |
| | | 15 |

**THIRD YEAR TOTAL CREDITS: 30**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| DRAFT 336 | Computer Aided Drafting | 3 |
| POLS 235 | American Political System I | 3 |
| CIVT 340 | Structural Steel Design | 3 |
| CIVT 337 | Reinforced Concrete Design | 3 |
| ENGT 331 | Engineering Economy | 3 |
| ENGR 310 | Introduction to Project Management | 1 |
| | | 16 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ITEC 331 | Technical Writing | 3 |
| POLS 236 | American Political System II | 3 |
| CIVT 400 | Problem in Civil Engineering Tech | 3 |
| CIVT 435 | Civil Engr. Construction Methods | 3 |
| | *Technical Elective 3xx or 4xx | 3 |
| | | 15 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 126**

# Bachelor of Science Degree in Electrical and Computer Engineering

**(Electrical Engineering Concentration)**

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ECE 110 | Introduction to Engineering | 1 |
| ECE 130 | Programming for Engr. Applications | 3 |
| ENG 131 | Freshman English I | 3 |
| ENGR 131 | Engineering Graphics | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| MUSIC 239 or ART 131 | Intro to Music **or** Drawing and Comp | 3 |
| | | 17 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ECE 131 | Circuit Analysis I | 3 |
| ECE 111 | Circuit Analysis Lab I | 1 |
| ENG 132 | Freshman English II | 3 |
| CHEM 131 | General Chemistry I | 3 |
| CHEM 111 | General Chemistry I Lab | 1 |
| MATH 242 | Calculus & Analytic Geometry II | 4 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 32**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| SC 135 | Business and Prof. Communication | 3 |
| MATH 243 | Calculus & Analytic Geometry III | 4 |
| PHYS 251 | University Physics I | 3 |
| PHYS 217 | University Physics I Lab | 1 |
| ECE 231 | Circuit Analysis II | 3 |
| ECE 211 | Circuit Analysis Lab II | 1 |
| POLS 235 | American Political System I | 3 |
| | | 18 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 251 | Differential Equation | 3 |
| PHYS 252 | University Physics II | 3 |
| PHYS 218 | University Physics II Lab | 1 |
| ECE 235 | Digital System | 3 |
| ECE 215 | Digital System Lab | 1 |
| ENG 2xx | Any 200 Level English | 3 |
| POLS 236 | American Political System II | 3 |
| | | 17 |

**SECOND YEAR TOTAL CREDITS: 35**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ECE 330 | Engineering Mathematical Analysis | 3 |
| ECE 331 | Electronic Circuits | 3 |
| ECE 311 | Electronic Circuits Lab | 1 |
| ECE 332 | Microprocessor Architecture | 3 |
| ECE 312 | Microprocessor Architecture Lab | 1 |
| HIST 231 | Social & Political History of U.S. to 1877 | 3 |
| | | 14 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ECE 334 | Signal and System | 3 |
| ECE 335 | Control Systems | 3 |
| ECE 315 | Control System Lab | 1 |
| ECE 338 | Computer and Wireless Networks | 3 |
| ECE 339 | Real-time Embedded System | 3 |
| ECE 319 | Real-time Embedded System Lab | 1 |
| HIST 232 | Social & Political History of U.S. Since 1877 | 3 |
| | | 17 |

**THIRD YEAR TOTAL CREDITS: 31**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ECE 430 | Applied Electromagnetics | 3 |
| ECE 432 | Communication Systems | 3 |
| ECE 412 | Communication System Lab | 1 |
| *ECON 231 | Principles of Economics I | 3 |
| | **Technical Elective | 3 |
| ENGR 310 | Introduction to Project Management | 1 |
| | | 14 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ECE 433 | Microwave Engineering | 3 |
| ECE 437 | Digital Signal Processing | 3 |
| ECE 438 | Power System Analysis | 3 |
| ECE 441 | Senior Project | 4 |
| ECE-ECX | ECE Comprehensive Exam | 0 |
| | | 13 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 125**

# Bachelor of Science Degree in Electrical and Computer Engineering

**(Computer Engineering Concentration)**

## FIRST YEAR

| FIRST SEMESTER | | | SECOND SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| ECE 110 | Introduction to Engineering | 1 | ECE 131 | Circuit Analysis I | 3 |
| ECE 130 | Programming for Engr. Applications | 3 | ECE 111 | Circuit Analysis Lab I | 1 |
| ENG 131 | Freshman English I | 3 | ENG 132 | Freshman English II | 3 |
| ENGR 131 | Engineering Graphics | 3 | CHEM 131 | General Chemistry I | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 | CHEM 111 | General Chemistry I Lab | 1 |
| MUSIC 239 or ART 131 | Intro to Music **or** Drawing and Composition | 3 | MATH 242 | Calculus & Analytic Geometry II | 4 |
| | | 17 | | | 15 |
| | | | | | **FIRST YEAR TOTAL CREDITS: 32** |

## SECOND YEAR

| THIRD SEMESTER | | | FOURTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| SC 135 | Business and Prof. Communication | 3 | MATH 251 | Differential Equation | 3 |
| MATH 243 | Calculus & Analytic Geometry III | 4 | PHYS 252 | University Physics II | 3 |
| PHYS 251 | University Physics I | 3 | PHYS 218 | University Physics II Lab | 1 |
| PHYS 217 | University Physics I Lab | 1 | ECE 235 | Digital System | 3 |
| ECE 231 | Circuit Analysis II | 3 | ECE 215 | Digital System Lab | 1 |
| ECE 211 | Circuit Analysis Lab II | 1 | ECE 236 | Java Programming | 3 |
| POLS 235 | American Political System I | 3 | POLS 236 | American Political System II | 3 |
| | | 18 | | | 17 |
| | | | | | **SECOND YEAR TOTAL CREDITS: 35** |

## THIRD YEAR

| FIFTH SEMESTER | | | SIXTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| ECE 330 | Engineering Mathematical Analysis | 3 | ECE 336 | Introductory to VLSI Design | 3 |
| ECE 331 | Electronic Circuits | 3 | ECE 337 | Operating System | 3 |
| ECE 311 | Electronic Circuits Lab | 1 | ECE 338 | Computer and Wireless Networks | 3 |
| ECE 332 | Microprocessor Architecture | 3 | ECE 339 | Real-time Embedded System | 3 |
| ECE 312 | Microprocessor Architecture Lab | 1 | ECE 319 | Real-time Embedded System Lab | 1 |
| HIST 231 | Social & Political History of U.S. to 1877 | 3 | HIST 232 | Social & Political History of U.S. Since 1877 | 3 |
| | | 14 | | | 16 |
| | | | | | **THIRD YEAR TOTAL CREDITS: 30** |

## FOURTH YEAR

| SEVENTH SEMESTER | | | EIGHTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| ECE 434 | Data Communications | 3 | ECE 437 | Digital Signal Processing | 3 |
| ECE 414 | Data Communications Lab | 1 | ECE 439 | Applied Cyber Security | 3 |
| ECE 436 | Artificial Intelligence | 3 | | **Technical Elective | 3 |
| *ECON 231 | Principles of Economics I | 3 | ECE 441 | Senior Project | 4 |
| ENG 2xx | Any 200 Level English | 3 | ECE-ECX | ECE Comprehensive Exam | 0 |
| ENGR 310 | Intro to Project Management | 1 | | | |
| | | 14 | | | 13 |
| | | | | | **FOURTH YEAR TOTAL CREDITS: 27** |
| | | | | | **CURRICULUM TOTAL: 125** |

# Bachelor of Science Degree in Electrical and Computer Engineering

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | Freshman English I | 3 |
| MATH 133 | College Algebra | 3 |
| ELET 111 | DC Circuit Lab | 1 |
| ELET 130 | Intro to Stru. Prog. with C++ | 3 |
| ELET 131 | DC Circuits | 3 |
| DRFT 233 | Intro to Computer Aided Design | 3 |
| | | 16 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | Freshman English II | 3 |
| MATH 134 | Plane Trig. **or** Math 136 Precal. | 3 |
| ELET 113 | AC Circuits Lab | 1 |
| ELET 133 | AC Circuits | 3 |
| CHEM 111 | General Chemistry Lab | 1 |
| CHEM 131 | General Chemistry | 3 |
| SC 135 | Business and Prof. Communication | 3 |
| | | 17 |

**FIRST YEAR TOTAL CREDITS: 33**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 2xx | Upper level English | 3 |
| MATH 241 | Calculus & Geometry I | 4 |
| ELET 114 | Electronics I Lab | 1 |
| ELET 134 | Electronics I | 3 |
| ELET 215 | Digital Systems Lab | 1 |
| ELET 235 | Digital Systems | 3 |
| | | 15 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 242 | Calculus & Anal. Geometry | 4 |
| ELET 212 | Electronics II Lab | 1 |
| ELET 232 | Electronics II | 3 |
| ENGT 331 | Engineering Economy | 3 |
| SOC 157 | Introduction to Sociology | 3 |
| | | 17 |

**SECOND YEAR TOTAL CREDITS: 35**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 313 | Microprocessor Architecture Lab | 1 |
| ELET 333 | Microprocessor Architecture | 3 |
| MATH 345 | Applied Math & Stat. for Tech. | 3 |
| PHYS 215 | College Physics I Lab | 1 |
| PHYS 237 | College Physics | 3 |
| POLS 235 | America Pol System I | 3 |
| HIST 231 | Social & Political History of U.S. to 1877 | 3 |
| | | 14 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 311 | Communicating Systems Lab | 1 |
| ELET 331 | Communicating Systems | 3 |
| ITEC 331 | Technical Writing | 3 |
| PHYS 216 | College Physics II Lab | 1 |
| PHYS 238 | College Physics II | 3 |
| POLS 236 | America Pol System II | 3 |
| HIST 232 | Social & Political History of U.S. since 1877 | 3 |
| | | 16 |

**THIRD YEAR TOTAL CREDITS: 30**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 312 | Control Systems Lab | 1 |
| ELET 332 | Control Systems | 3 |
| ELET 411 | Micro Computer Networks Lab. | 1 |
| ELET 434 | Micro Computer Networks | 3 |
| ENGR 310 | Intro to Project Management | 1 |
| MUSIC 239 | Fine Arts in Daily Living | 3 |
| ENGT 333 | Ethics in Prof. Engr. Practice | 1 |
| | | 14 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 410 | Computer Control Systems Lab | 1 |
| ELET 430 | Computer Control Systems | 3 |
| ELET 413 | Microprocessor Interfacing Lab | 1 |
| ELET 431 | Microprocessor Interfacing | 3 |
| ELET 440 | Senior Electronics Project | 4 |
| ELET 441 | Electronics SR. Comp | 0 |
| ELET 422 | Advanced Stru. Prog. With C++ | 3 |
| | | 13 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 124**

# Bachelor of Science Degree in Computer Engineering Technology

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 111 | DC Circuit Lab | 1 |
| ELET 131 | DC Circuits | 3 |
| ELET 130 | Intro to Stru. Prog. with C++ | 3 |
| DRFT 233 | Intro to Computer Aided Design | 3 |
| ENG 131 | Freshman English I | 3 |
| MATH 133 | College Algebra | 3 |
| | | 16 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 113 | AC Circuits Lab | 1 |
| ELET 133 | AC Circuits | 3 |
| ENG 132 | Freshman English II | 3 |
| MATH 134 | Plane Trig. or MATH 136 Precal. | 3 |
| CHEM 111 | General Chemistry Lab | 1 |
| CHEM 131 | General Chemistry | 3 |
| | | 14 |

**FIRST YEAR TOTAL CREDITS: 30**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 114 | Electronics I Lab | 1 |
| ELET 134 | Electronics I | 3 |
| ELET 215 | Digital Systems Lab | 1 |
| ELET 235 | Digital Systems | 3 |
| MATH 241 | Calculus & Geometry I | 4 |
| POLS 235 | America Pol System I | 3 |
| ENG 2xx | Any 200 Level English | 3 |
| | | 18 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 242 | Calculus & Anal. Geometry | 4 |
| ENGT 331 | Engineering Economy | 3 |
| MUSIC 239 | Fine Arts in Daily Living | 3 |
| SC 135 | Business & Prof. Comm. | 3 |
| POLS 236 | America Pol System II | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 35**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 313 | Microprocessor Architecture Lab | 1 |
| ELET 333 | Microprocessor Architecture | 3 |
| CMET 331 | MicroComputer Operating System | 3 |
| MATH 345 | Applied Math & Stat. for Tech. | 3 |
| PHYS 237 | College Physics I | 3 |
| PHYS 215 | Physics for Eng. Lab I | 1 |
| HIST 231 | Social & Political History of U.S. to 1877 | 3 |
| | | 17 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 422 | Advanced Stru. Prog. With C++ | 3 |
| ITEC 331 | Technical Writing | 3 |
| PHYS 238 | College Physics II | 3 |
| PHYS 216 | Phys for Eng. II 1 | 1 |
| HIST 231 | Social & Political History of U.S. since 1877 | 3 |
| ENGR 310 | Intro to Project Management | 1 |
| | | 14 |

**THIRD YEAR TOTAL CREDITS: 31**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ELET 411 | Micro Computer Networks Lab. | 1 |
| ELET 434 | Micro Computer Networks | 3 |
| CMET 412 | Senior Project I | 1 |
| CMET 416 | Applied Microprocessor Soft. Lab | 1 |
| CMET 436 | Applied Microprocessor Soft | 3 |
| SOC 157 | Intro to Sociology | 3 |
| | | 12 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CMET 415 | Adv. MicroCom. Networks Lab 1 | 1 |
| CMET 435 | Advanced MicroCom. Networks | 3 |
| CMET 417 | Data Commun. Methods Lab | 1 |
| CMET 437 | Data Communication Methods | 3 |
| CMET 432 | Senior Project II | 3 |
| CMET 438 | Artificial Intelligence | 3 |
| CMET 441 | Computer Eng. Tech. Comp. Exam | 0 |
| CMET 470 | Java Programming | 3 |
| | | 17 |

**FOURTH YEAR TOTAL CREDITS: 29**

**CURRICULUM TOTAL: 124**

# Bachelor of Science Degree in Industrial Technology

## Construction Technology Concentration

### FIRST YEAR

#### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ART 131 | Drawing and Composition I | 3 |
| CONS 131 | Intro to Const Develop | 3 |
| ENG 131 | Freshman English I | 3 |
| DRFT 131 | Fundamentals of Drafting | 1 |
| DRFT 131L | Fundamentals of Drafting Lab | 2 |
| MATH 133 | College Algebra | 3 |
| CS 116 | Intro to Computer Science I | 3 |
| | | 18 |

#### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| CONS 141 | Materials and Methods | 2 |
| CONS 141L | Materials and Methods Lab | 1 |
| ENG 132 | Freshman English II | 3 |
| ELET 131 | DC Circuits Lecture | 3 |
| CHEM 131 | Gen. Chem. I **or** BIOL 143 Survey of Life Science | 3 |
| MATH 138 | Math for Business & Econ Analysis II | 3 |
| ITEC 111 | Orientation | 1 |
| | | 16 |

**FIRST YEAR TOTAL CREDITS: 34**

### SECOND YEAR

#### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| CIVT 231 | Surveying I | 3 |
| CONS 242 | Framing Principles | 2 |
| CONS 242L | Framing Principles Lab | 1 |
| DRFT 133L | Architectural Drafting Lab | 1 |
| DRFT 133 | Architectural Drafting | 2 |
| ENG 2XX | Any 200 Level English | 3 |
| HIST 231 | Social & Political History of the U.S. to 1877 | 3 |
| POLS 235 | American Political Systems II | 3 |
| | | 18 |

#### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CONS 334 | Concrete Technology | 2 |
| CONS 334L | Concrete Technology Lab | 1 |
| DRFT 232 | Architectural Design | 2 |
| DRFT 232L | Architectural Design Lab | 1 |
| PHYS 237 | College Physics I Lecture | 3 |
| HIST 232 | Social & Political History of the U.S. since 1877 | 3 |
| POLS 236 | American Political Systems II | 3 |
| | | 15 |

**SECOND YEAR TOTAL CREDITS: 33**

### THIRD YEAR

#### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ECON 231 | Principles of Economics | 3 |
| CONS 333 | Quantity Surveying | 2 |
| CONS 333L | Quantity Surveying Lab | 1 |
| CONS 344 | Construction Management I | 2 |
| CONS 344L | Construction Management I Lab | 1 |
| ITEC 331 | Technical Writing | 3 |
| ITEC 333 | Supervision and Management | 3 |
| ITEC 439 | Industrial Safety | 3 |
| | | 18 |

#### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ACCT 231 | Principles of Accounting | 3 |
| CONS 341 (MEPFI) | Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems | 2 |
| CONS 341L (MEPFI) | Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Lab | 1 |
| CONS 433 | Estimating | 2 |
| CONS 433L | Estimating Lab | 1 |
| MFG 333 | Strength of Materials | 2 |
| MFG 333L | Strength of Materials Lab | 1 |
| SC 135 **or** 136 | Business & Prof Comm **or** Public Address | 3 |
| | | 15 |

**THIRD YEAR TOTAL CREDITS: 33**

### FOURTH YEAR

#### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CONS 436 | Construction Management II | 2 |
| CONS 436L | Construction Management II Lab | 1 |
| CONS 435 | Contracts and Specifications | 3 |
| DRFT 431 | Structural Design | 2 |
| DRFT 431L | Structural Design Lab | 1 |
| | ELECTIVE | 3 |
| | | 14 |

#### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CONS 437 | Construction Problems | 3 |
| ITEC 412 | Senior Seminar | 1 |
| CONS 475 | Facilities Management | 2 |
| CONS 475L | Facilities Management Lab | 1 |
| | ELECTIVE | 3 |
| | Comprehensive Examination | 0 |
| | | 13 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 122**

# Bachelor of Science Degree in Industrial Technology

## Design Technology Concentration

### FIRST YEAR

#### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ART 131 | Drawing and Composition I | 3 |
| CS 116 | Introduction to Computer Science I | 3 |
| DRFT 131 | Fundamentals of Drafting | 1 |
| DRFT 131L | Fundamentals of Drafting Lab | 2 |
| ENG 131 | English I | 3 |
| ITEC 111 | Orientation | 1 |
| MATH 133 | College Algebra | 3 |
| | | 16 |

#### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| CONS 141 | Materials and Applications | 2 |
| CONS 141L | Materials and Applications Lab | 1 |
| DRFT 134 | Mechanical Drafting | 2 |
| DRFT 134L | Mechanical Drafting Lab | 1 |
| ELET 131 | DC Circuits Lecture | 3 |
| ENG 132 | English II | 3 |
| MATH 134 | Trigonometry | 3 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 31**

### SECOND YEAR

#### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| CHEM 131 | General Chemistry I Lecture | 3 |
| DRFT 133 | Architectural Drafting | 2 |
| DRFT 133L | Architectural Drafting Lab | 1 |
| ENG 2xx | Any 200 Level English | 3 |
| MFG 231 | Manufacturing Processes | 2 |
| MFG 231L | Manufacturing Processes Lab | 1 |
| ACCT 231 | Principles of Accounting | 3 |
| | | 15 |

#### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| DRFT 231 | Pipe Drafting | 2 |
| DRFT 231L | Pipe Drafting Lab | 1 |
| DRFT 232 | Architectural Design | 2 |
| DRFT 232L | Architectural Design Lab | 1 |
| MATH 138 | Math for Business & Econ Analysis II | 3 |
| PHYS 237 | College Physics I Lecture | 3 |
| PHYS 213 | College Physics I Lab | 1 |
| SC 135 or 136 | Business & Prof Comm **or** Public Address | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 31**

### THIRD YEAR

#### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| CIVT 232 | Engineering Statics | 3 |
| DRFT 233 | Basic Computer Drafting | 1 |
| DRFT 233L | Basic Computer Drafting Lab | 2 |
| DRFT 333L | Machine Design Lab | 1 |
| DRFT 333 | Machine Design | 2 |
| ITEC 333 | Supervision and Management | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| POLS 235 | American Political Systems I | 3 |
| | | 18 |

#### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| PSY 131 | Introduction to Psychology | 3 |
| DRFT 331 | Piping System Design | 2 |
| DRFT 331L | Piping System Design Lab | 1 |
| ITEC 331 | Technical Writing | 3 |
| MFG 333 | Strength of Material | 2 |
| MFG 333L | Strength of Material Lab | 1 |
| HIST 232 | Social & Political History of the United States since 1877 | 3 |
| POLS 236 | American Political Systems II | 3 |
| | | 18 |

**THIRD YEAR TOTAL CREDITS: 36**

### FOURTH YEAR

#### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| DRFT 431 | Structural Design | 2 |
| DRFT 431L | Structural Design Lab | 1 |
| CONS 333 | Quantity Surveying | 2 |
| CONS 333L | Quantity Surveying Lab | 1 |
| ITEC 439 | Industrial Safety | 3 |
| | Elective | 3 |
| | | 12 |

#### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| DRFT 430 | Advance Computer-Aided Design | 2 |
| DRFT 430L | Advance CAD Design Lab | 1 |
| DRFT 432 | Senior Design Project | 1 |
| DRFT 432L | Senior Design Project Lab | 2 |
| ITEC 412 | Senior Seminar | 1 |
| | Elective | 3 |
| | Comprehensive Exam | 0 |
| | | 10 |

**FOURTH YEAR TOTAL CREDITS: 22**

**CURRICULUM TOTAL: 120**

# Bachelor of Science Degree in Mathematics-General

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | Freshman English I | 3 |
| MATH 136 | Precalculus Mathematics | 3 |
| CHEM 131 or BIOL 143 | General Chemistry & Lab I<br>Survey of Life Science | 3 |
| HIST 281 | Introduction to African American History | 3 |
| SC 135 or SC 136 | Business & Professional Communication or Public Address | |
| | Creative Arts | 3 |
| | | 15 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | English II | 3 |
| MATH 241 | Calculus & Analytic Geometry I | 4 |
| CHEM 132 or GEOL 141 | General Chemistry & Lab II<br>Introduction to Earth | 3 |
| | Social & Behavioral Sciences Area | 3 |
| HED 233 | History and Principles of Health | 2 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 30**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| POLS 235 | American Political Systems I | 3 |
| HIST 231 | Social & Political History of the United States to 1877 | 3 |
| ENG 2XX | Any 200 Level ENGLISH may be selected | 3 |
| MATH 242 | Calculus & Analytic Geometry II | 4 |
| CS 116 | Computer Science I | 3 |
| | | 16 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| POLS 236 | American Political Systems II | 3 |
| HIST 232 | Social & Political History of the United States since 1877 | 3 |
| | Course in Minor/Second Major Field | 3 |
| MATH 243 | Calculus & Anlaytic Geometry III | 4 |
| CS 117 | Computer Science II | 3 |
| | | 16 |

**SECOND YEAR TOTAL CREDITS: 32**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 250 | Linear Algebra | 3 |
| MATH 331 | Logic, Sets & Functions | 3 |
| | Foreign Languages or CS Elective | 3 |
| PHYS 217 | University Physics I Lab | 1 |
| PHYS 251 | University Physics I | 3 |
| | Course in Minor/Second Major Field | 3 |
| | | 16 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 251 | Differential Equations | 3 |
| MATH 336 | Foundations of Algebra | 3 |
| | Foreign Languages or CS Elective | 3 |
| PHYS 218 | University Physics II Lab | 1 |
| PHYS 252 | University Physics I Labl | 3 |
| | Course in Minor/Second Major Field | 3 |
| | | 16 |

**THIRD YEAR TOTAL CREDITS: 30**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 473 | Probability and Statistics I | 3 |
| MATH Elective | (6hrs. upper division course) | 6 |
| | Course in Minor/Second Major Field | 3 |
| | Course in Minor/Second Major Field | 3 |
| | | 15 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 439 | Advanced Calculus I | 3 |
| MATH Elective | (3hrs. upper division course) | 3 |
| | Course in Minor/Second Major Field | 3 |
| | Course in Minor/Second Major Field | 3 |
| | | 12 |

**FOURTH YEAR TOTAL CREDITS: 27**

**CURRICULUM TOTAL: 121**

# Maritime Transportation Management and Security
## (WITH MINOR)

### FIRST YEAR

| FIRST SEMESTER | | | SECOND SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| ENG 131 | Freshman English I | 3 | ENG 132 | Freshman English II | 3 |
| MATH 133 | College Algebra | 3 | POLS 236 | American Political Systems II | 3 |
| BIOL 143 | Survey of Life Science | 3 | GEOL 141 | Introduction to the Earth | 3 |
| | Major Lab Requirement | 0 | | Major Lab Requirement | 0 |
| HIST 281 | Introduction to African American History | 3 | PSY 131 | General Psychology | 3 |
| POLS 235 | American Political Systems I | 3 | MTMS 101 | Introduction to Maritime Transportation | 3 |
| | | 15 | | | 15 |

FIRST YEAR TOTAL CREDITS: 30

### SECOND YEAR

| THIRD SEMESTER | | | FOURTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| MATH 231 | Elementary Statistics I | 3 | ENG 230 | World Literature I | 3 |
| HIST 231 | Social and Political History of the U.S. to 1877 | 3 | HIST 231 | Social and Political History of the U.S. to 1877 | 3 |
| | MINOR | 3 | | MINOR | 3 |
| MTMS 202 | Maritime Law | 3 | GEOG 132 | World Regional Geography | 3 |
| CS 116 | Intro to Computers and Their Applications I | 3 | | MINOR | 3 |
| | | | MUSI 239 | Fine Arts and Daily Living | 3 |
| | | 15 | | | 18 |

SECOND YEAR TOTAL CREDITS: 33

### THIRD YEAR

| FIFTH SEMESTER | | | SIXTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| MTMS 303 | American Maritime History | 3 | MTMS 361 | Maritime Environ. Mgmt. | 3 |
| MTMS 341 | Maritime Security Management | 3 | MKTG 306 | Principles of Management | 3 |
| MGMT 300 | Principles of Management | 3 | MTMS 322 | Port and Term. Oper. Management | 3 |
| ITEC 331 | Technical Writing | 3 | MTMS Elective | | 3 |
| MTMS 321 | Inter. Business and Ocean Shipping | 3 | | MINOR | 3 |
| | | 15 | | | 15 |

THIRD YEAR TOTAL CREDITS: 30

### FOURTH YEAR

| SEVENTH SEMESTER | | | EIGHTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| MTMS 424 | Contan. and Mo. Cargo Stw. | 3 | MTMS 463 | Maritime Environmental Law | 3 |
| MIS 304 | Information Technology | 3 | MTMS 481 | Seminar in International Maritime Business | 3 |
| MGMT 402 | International Management | 3 | | MINOR | 3 |
| | MINOR | 3 | ITEC 412 | Senior Seminar | 1 |
| | MINOR | 3 | MTMS 495 | Practicum | 3 |
| | | 15 | | | 13 |

FOURTH YEAR TOTAL CREDITS: 28

**CURRICULUM TOTAL: 121**

# Maritime Transportation Management and Security

## FIRST YEAR

### FIRST SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 131 | Freshman English I | 3 |
| MATH 133 | College Algebra | 3 |
| BIOL 143 | Survey of Life Science | 3 |
| | Major Lab Requirement | 0 |
| HIST 281 | Introduction to African American History | 3 |
| POLS 235 | American Political Systems I | 3 |
| | | 15 |

### SECOND SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 132 | Freshman English II | 3 |
| POLS 236 | American Political Systems II | 3 |
| GEOL 141 | Introduction to the Earth | 3 |
| | Major Lab Requirement | 0 |
| PSY 131 | General Psychology | 3 |
| MTMS 101 | Introduction to Maritime Transportation | 3 |
| | | 15 |

**FIRST YEAR TOTAL CREDITS: 30**

## SECOND YEAR

### THIRD SEMESTER

| COURSE | | HRS |
|---|---|---|
| MATH 231 | Elementary Statistics I | 3 |
| HIST 231 | Social and Political History of the U.S. to 1877 | 3 |
| SPAN 131 | Elementary Spanish | 3 |
| MTMS 202 | Maritime Law | 3 |
| CS 116 | Intro to Computers and Their Applications I | 3 |
| | | 15 |

### FOURTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| ENG 230 | World Literature I | 3 |
| HIST 232 | Social and Political History of the U.S. since 1877 | 3 |
| SPAN 132 | Elementary Spanish II | 3 |
| GEOG 132 | World Regional Geography | 3 |
| CS 117 | Intro to Computers and Their Applications II | 3 |
| MUSI 239 | Fine Arts and Daily Living | 3 |
| | | 18 |

**SECOND YEAR TOTAL CREDITS: 33**

## THIRD YEAR

### FIFTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MTMS 303 | American Maritime History | 3 |
| MTMS 341 | Maritime Security Management | 3 |
| MGMT 300 | Principles of Management | 3 |
| ITEC 331 | Technical Writing | 3 |
| MTMS 321 | Inter. Business and Ocean Shipping | 3 |
| | | 15 |

### SIXTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MTMS 361 | Maritime Environ. Mgmt. | 3 |
| MKTG 306 | Principles of Management | 3 |
| MTMS 322 | Port and Term. Oper. Management | 3 |
| MTMS Elective | | 3 |
| MGMT 301 | Personnel and Manpower Dev | 3 |
| | | 15 |

**THIRD YEAR TOTAL CREDITS: 30**

## FOURTH YEAR

### SEVENTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MTMS 424 | Contan. and Mo. Cargo Stw. | 3 |
| MIS 304 | Information Technology | 3 |
| MGMT 402 | International Management | 3 |
| MTMS Elective | | 3 |
| MTMS Elective | | 3 |
| | | 15 |

### EIGHTH SEMESTER

| COURSE | | HRS |
|---|---|---|
| MTMS 463 | Maritime Environmental Law | 3 |
| MTMS 481 | Seminar in International Maritime Business | 3 |
| MTMS Elective | | 3 |
| ITEC 412 | Senior Seminar | 1 |
| MTMS 495 | Practicum | 3 |
| | | 13 |

**FOURTH YEAR TOTAL CREDITS: 28**

**CURRICULUM TOTAL: 121**

# Bachelor of Science Degree in Physics

(For different concentrations, choice of electives will require departmental approval. Concentrations: Astrophysics, Computational Physics, or Medical Health Physics)

## FIRST YEAR

| FIRST SEMESTER | | | SECOND SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| | Communication Area | 3 | | Communication Area | 3 |
| MATH 136 | Precalculus | 3 | | Creative Arts | 3 |
| CHEM 131 **or** | General Chemistry I **or** | 3 | PHYS 251 | University Physics I | 3 |
| BIOL 143 | Survey of Life Science | | PHYS 217 | University Physics I Lab | 1 |
| | Institutional Options Area | 3 | | Social & Behavioral Sciences Area | 3 |
| PHYS 152 | Pre-University Physics | 3 | MATH 241 | Calculus I | 4 |
| PHYS 116 | Pre-University Physics Lab | 1 | | | |
| | | 16 | | | 17 |

**FIRST YEAR TOTAL CREDITS: 33**

## SECOND YEAR

| THIRD SEMESTER | | | FOURTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| | Government/Political Science Area | 3 | | Government/Political Science Area | 3 |
| | American History Area | 3 | | American History Area | 3 |
| | Language, Philosophy & Culture | 3 | | Institutional Options Area | 3 |
| PHYS 252 | University Physics II | 3 | MATH 243 | Calculus III | 4 |
| PHYS 218 | University Physics II Lab | 1 | | Advanced Comp. Prog. Prescribed Elective | 3 |
| MATH 242 | Calculus II | 4 | | | |
| | | | | | 16 |

**SECOND YEAR TOTAL CREDITS: 33**

## THIRD YEAR

| FIFTH SEMESTER | | | SIXTH SEMESTER | | |
|---|---|---|---|---|---|
| COURSE | | HRS | COURSE | | HRS |
| PHYS 332 | Modern Physics | 3 | PHYS 333 | Electricity and Magnetism | 3 |
| PHYS 341 | Mechanics | 3 | PHYS 336 | Thermo and Statistics | 3 |
| MATH 251 | Differential Equations | 3 | PHYS 338 | Math Methods | 3 |
| Prescribed Electives (Requiring Departmental Approval) | | 3 | PHYS 360 | Advanced Undergraduate Lab | 3 |
| | Free Elective | 4 | | | |
| | | 16 | | | 12 |

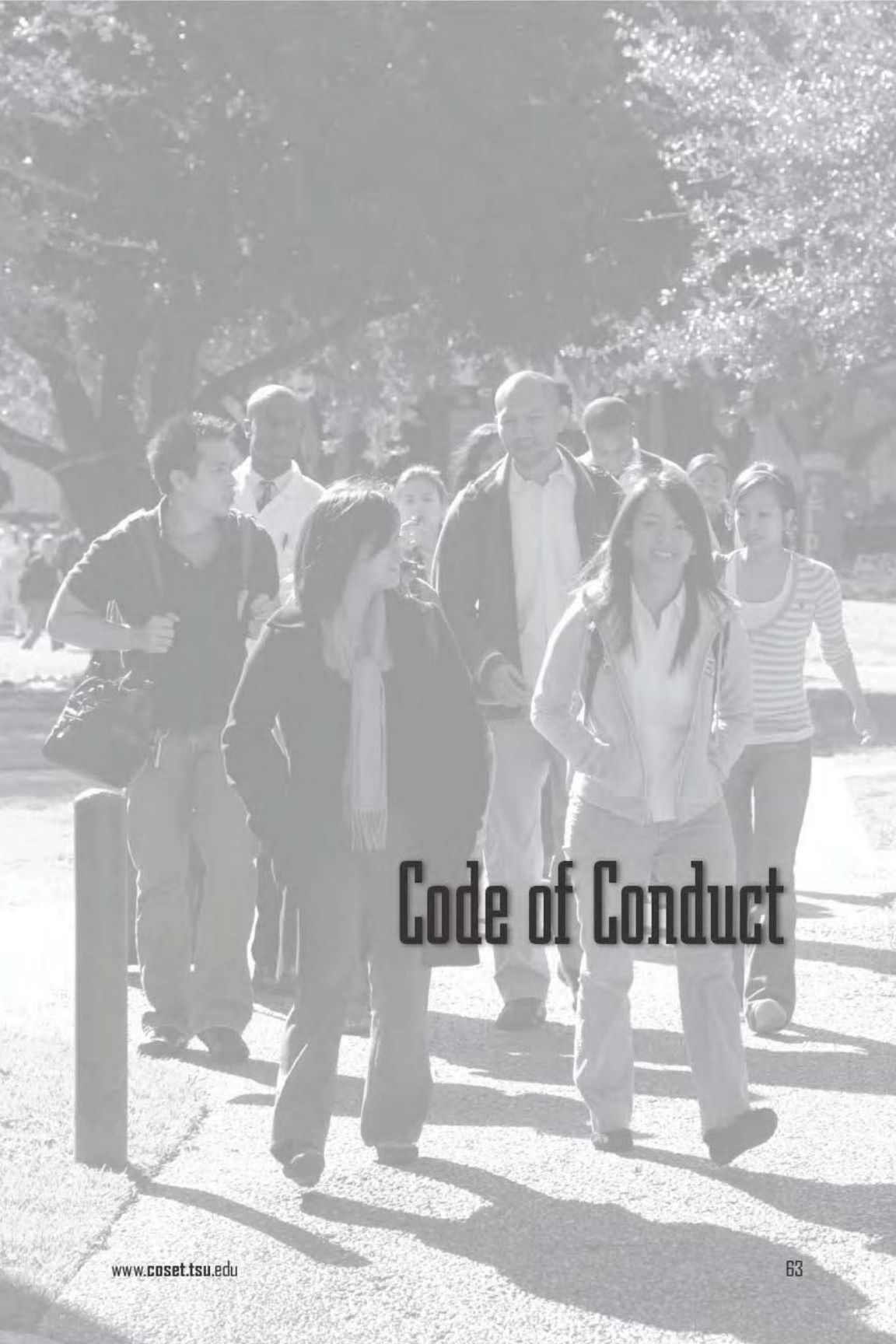
**THIRD YEAR TOTAL CREDITS: 28**

## FOURTH YEAR

| SEVENTH SEMESTER | | | EIGHTH SEMESTER | | |
|---|---|---|---|---|---|
| Prescribed Elective | | 6 | | Free Elective | 6 |
| PHYS 415 | Senior Thesis I | 1 | PHYS 416 | Senior Thesis II | 1 |
| PHYS 432 | Quantum Mechanics | 3 | PHYS 437 | Nuclear Physics | 3 |
| PHYS 484 | Advanced Physics Elective | 3 | PHYS 484 | Advanced Physics Elective | 3 |
| | | 13 | | | 13 |

**FOURTH YEAR TOTAL CREDITS: 26**

**CURRICULUM TOTAL: 120**



# Code of Conduct

The code of conduct set forth by the college strictly adheres to that of the university and can be found in its entirety at http://codes.tsu.edu/#.

**Classroom etiquette:**

Texas Southern University (TSU) is committed to establishing and maintaining a safe and civil environment for the teaching, learning and administrative process. Civility, understanding and mutual respect among all are intrinsic to such an environment. Occasionally, that environment is disturbed by the actions or behaviors of a disruptive nature.

TSU code of conduct 4.4 and 4.26 defines disruption as obstructing or interfering with university functions or any university activity. Disturbing the peace and good order of the university by, among other things, fighting, quarreling, disruptive behavior or excessive noise, including but not limited to, a disruption by use of pagers, cell phones, and/ or communication devices (pages 13 & 15).

**Dress Policy:**

Students of Texas Southern University are expected to dress in an appropriate manner in the academic learning environment. The continuous demonstration of proper dress and manners ensures that Texas Southern University students meet standards of quality achievement in academics and the work environment, which will propel students to success in future endeavors. Students are expected to dress appropriately in the classroom and special University events (Charter Day, Convocation, etc.).

University expectations for classroom attire:

- Neat
- Modest
- Dressy or
- Casual

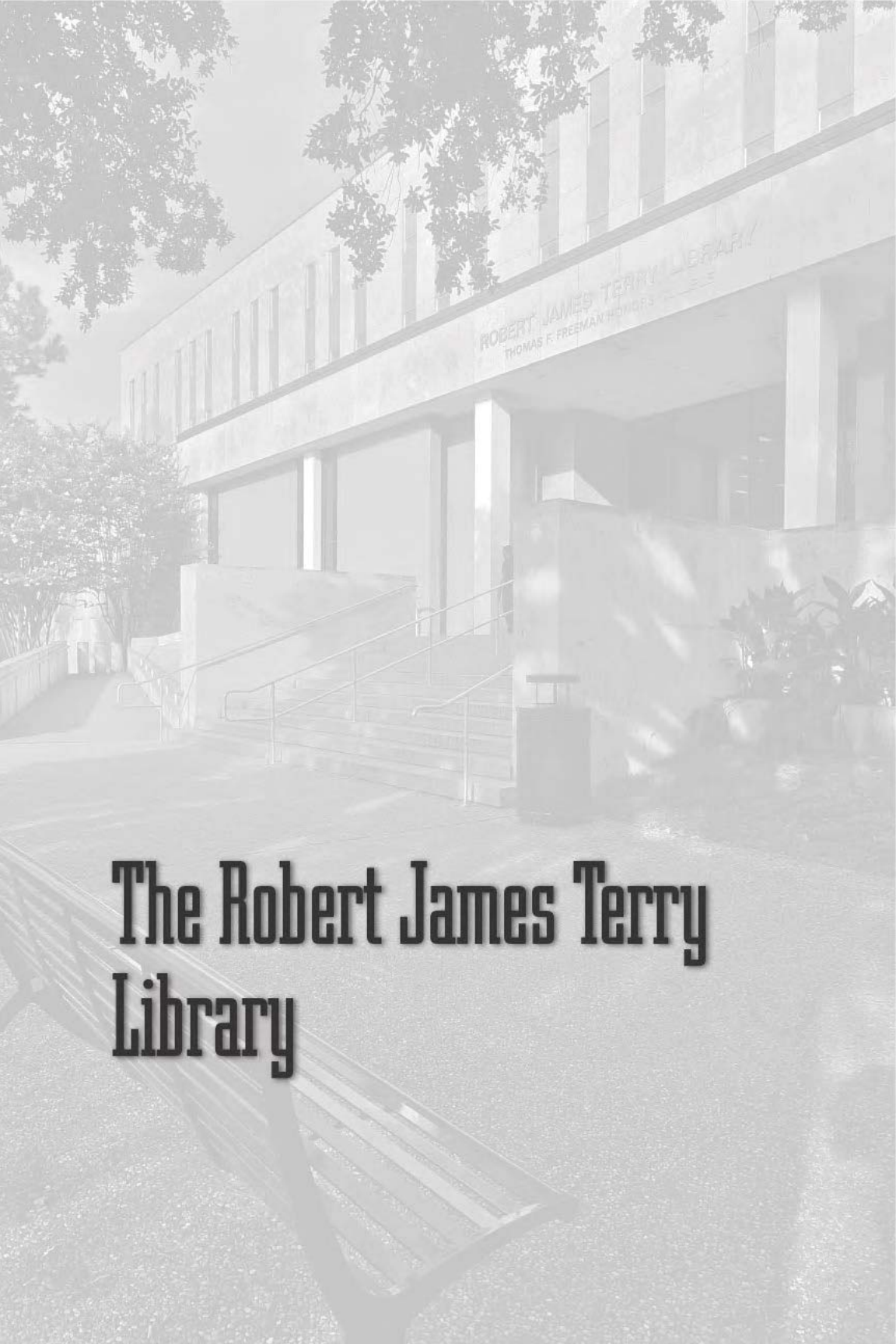
The attire expected for University programs held in Sawyer or HPE:

- Business casual

University expectations for University Balls/Galas attire:

- Formal or Semi-Formal Attire

Students dressed inappropriately may be denied admission to University events including but not limited to classroom meetings. The goal is to educate and prepare students for the professional environment and to ensure proper representation of this great institution at all times.




# The Robert James Terry Library

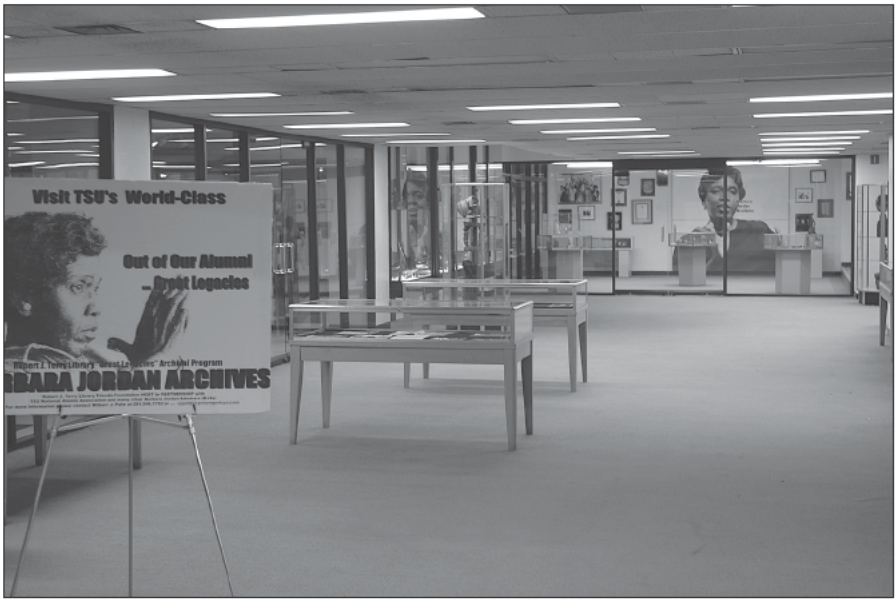
The Robert James Terry Library supports the academic and research mission and vision of the University through the development of relevant resources and educational services designed to enhance and facilitate learning and research, enriching information literacy skills - lifelong learning - in the information age. The library provides dedicated librarians and staff who provide reference and research assistance, consultation, and instruction.

The principal research resources consist of over 261,505 volumes of print materials and media, over 1,774 print journals and more than 504,149 microforms. The library provides web-based access to a large number of electronic research resources, including over 260 electronic databases, over 79,557 full text e-journals, and five collections totaling approximately 100,735 e-books, most of which are also accessible from off campus. These resources are housed in a building with approximately 135,000 square feet of seating space accommodating approximately 687 users. To augment study, a number of closed study rooms and individual study carrels are provided on most floors. With the exception of Special Collections, the library maintains open stacks. Materials are classified using the Library of Congress Classification System as presented on the Library of Congress website.

The five-story Terry Library provides seven major public access service areas: Reference, Circulation/Reserve, and Special Collections on the first floor; the Serials Department on the second floor; the Learning Resources Center on the third floor; the Business and Economics Library on the fifth floor; and the Pharmacy Reading Room on the first floor of the Gray Hall pharmacy building.

The Library has four Circulating Collections. All materials classified according to the Library of Congress Classifications A-K are located on the third floor; Classifications L-Z are located on the fourth floor; Classifications HB-HJ are located in the Business and Economics Library on the fifth floor; and the paperback collection is located on the first floor in the Heartmen Collection.

Access to library resources is available on the Web. The Library Catalog is linked to the Texas Southern University website. Online public access terminals are located on the first floor in the Catalog Alcove, on the second floor in the Serials Department, and on the fifth floor in the Business and Economics Library.




The Library provides a variety of services such as bibliographic instruction, Ask A Librarian, information services, borrowing, faculty reserves, My Account, and interlibrary loan and document delivery. Distance Learning Services (SeE Terry Library Webpage: http://archive.tsu.edu/pages/4398/) and reciprocal borrowing from TexShare libraries are available for currently enrolled students, and faculty and staff are eligible to borrow materials directly from most Texas state colleges and universities. Additional information regarding this service may be obtained from the Terry Library Circulation/Reserve Desk (713-313-7148). Other services offered include photocopying; free scanning; study areas; study carrels; laptop computing; lockers; and services for persons with disabilities. For more information (SeE Terry Library web page: **http://www.tsu.edu/academics/Robert_J_Terry_Library/**)

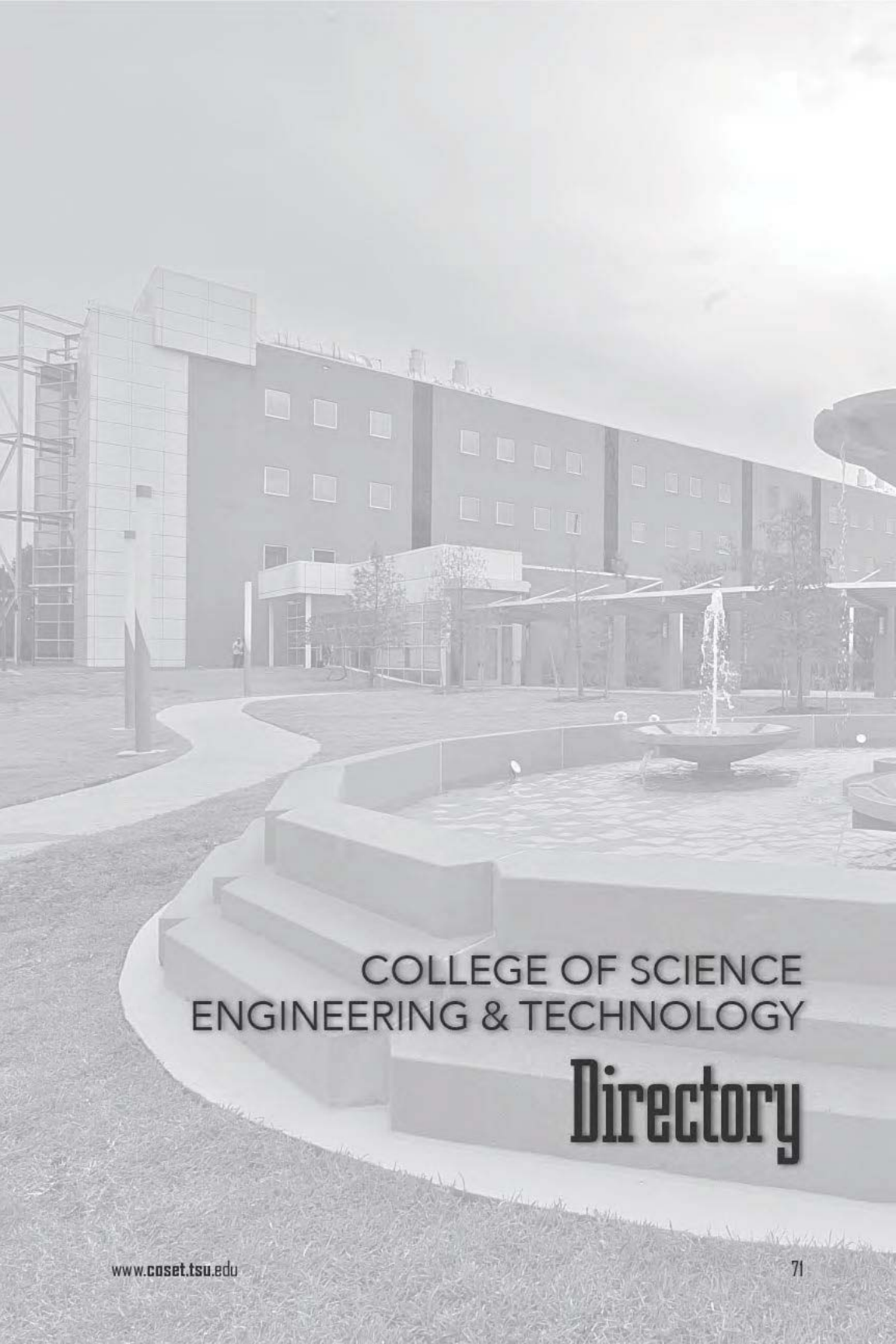
Finally, one of the unique features of the Library is its Department of Special Collections, housing the "treasures" of the University. These unique holdings provide a varied repository of collections with international significance. The collections include **The Barbara Jordan Archives, The Traditional African Art Gallery, The Heartman Collection on African American Life and Culture, and The University Archives.**


# Academic Advisement

The academic advising process is very important to any degree-seeking student. The process serves the student in many ways necessary in fostering a successful college career. Academic advising is a multifaceted activity advising should assist students to realize the maximum educational benefits available to them by

- Helping students to clarify their vales, goals and to understand themselves better
- Helping students to understand the nature and the purpose of higher education
- Providing accurate information about educational options, requirements, policies and procedures.
- Helping students plan an educational program consistent with their interest and abilities.
- Acquainting advisees with general/departmental requirements, college regulations, services and opportunities;
- Helping advisees understand the relationship of past educational achievement to their present and future educational goals;
- Affording advisees ample opportunities to meet for discussions of their educational experiences and endeavors.
- Academic Advisors are a critical factor in student retention. Academic advisement enhances student success and retention. The ultimate goal satisfaction and persistence rate of students. Academic advisors facilitate the student retention process if they
- Are sensitive to the legitimate needs and interest of students
- Encourage students involvement in course and campus activities
- Provide students with frequent, specific, and positive feedback about their academic progress and development

**SEE YOUR ACADEMIC ADVISOR!!!**



# COLLEGE OF SCIENCE ENGINEERING & TECHNOLOGY

# Directory

**SECURITY KIOSK DESK**
(Spearman Technology Building) • EXT. 5037

**TSU POLICE DEPARTMENT**
EXT. 7000 (Emergency) • EXT. 7001 (Non-Emergency)

**TSU STUDENT HEALTH CENTER**
Monday – Friday 8AM – 5PM • 713-313-7173

## OFFICE OF THE DEAN

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**TBA** ..... 713-313-7396
*Administrative Assistant*

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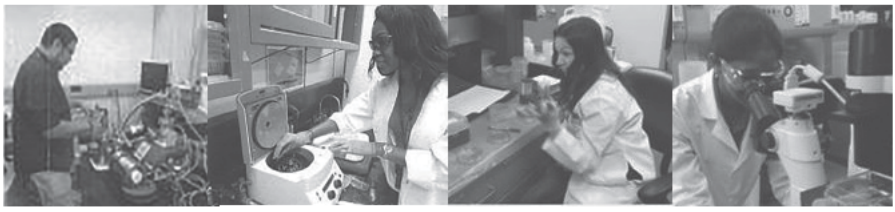
# RESEARCH CENTERS



## CENTER FOR TRANSPORTATION TRAINING AND RESEARCH (CTTR)

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**TBA** ..... 713-313-7396
*Administrative Assistant*

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## INNOVATIVE TRANSPORTATION RESEARCH CENTER

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**Dr. Fengxiang Qiao** ..... 713.313-1915
*Associate Professor and Co-Director*
qiao_fg@tsu.edu

**Updated: May 24, 2016**

# 2016-2018 Academic Calendars

## Fall Semester 2016

| | |
|---|---|
| April 21 - August 21 | Fall registration period for continuing students http://em.tsu.edu/registrar/acadcalsel.php |
| August 1 | Monday Last day to pay tuition and fees without a late fee for continuing students |
| August 12 | Friday Last day to apply for fall admission |
| August 14 | Sunday Housing move in Freshmen students only |
| August 18 | Thursday Housing move in for Continuing Students |
| August 22 | Monday CLASSES BEGIN |
| August 22 - August 26 | Monday-Friday Change of program period |
| September 5 | Monday Labor Day holiday |
| September 6 | Tuesday TWELFTH CLASS DAY |
| September 6 | Last day to drop classes or withdraw from school without grades of W |
| September 9 | Friday Opening Convocation - FOUNDERS' DAY |
| September 12 | Monday Deadline for December graduation |
| September 15 | Last day to pay tuition and fees with a late fee for all students |
| September 15 | Purge of all unpaid course selections |
| September 15 | Thursday TWENTIETH CLASS DAY |
| October 8 - October 14 | Saturday-Friday MID-SEMESTER EXAMINATIONS |
| October 17 - October 22 | Monday-Saturday Homecoming |
| November 4 | Friday Last day to drop classes or withdraw from school with grades of W |
| November 11 | Friday – Veterans' Day holiday |
| November 24 - November 26 | Thursday-Saturday Thanksgiving holidays |
| November 28 | Monday Classes resume |
| December 2 | Friday Last day of classes |
| December 3 - December 9 | Saturday-Friday FINAL EXAMINATIONS |
| December 9 | Friday Official closing of semester |
| December 10 | Saturday Commencement Exercises, 9:30 a.m. |
| December 10 | Residence Halls close |

**Please note that the academic calendar dates are subject to change.**

## Spring 2017 Semester

| | |
|---|---|
| November 14 - January 16 | Spring registration period for continuing students http://em.tsu.edu/registrar/acadcalsel.php |
| January 6 | Friday Last day to apply for spring admission |
| January 11 | Wednesday Housing move in |
| January 13 | Friday Last day to pay tuition and fees without a late fee for continuing |
| January 16 | Monday Martin Luther King, Jr. Day Holiday |
| January 17 | Tuesday CLASSES BEGIN |
| January 17 - January 20 | Tuesday-Friday Change of program period |
| January 30 | Monday TWELFTH CLASS DAY |
| January 30 | Last day to drop classes or withdraw from school without grades of W |
| February 3 | Friday Deadline for applying for May Graduation |
| February 8 | Last day to pay tuition and fees with a late fee for all students |
| February 8 | Purge of all unpaid course selections |
| February 8 | Wednesday TWENTIETH CLASS DAY |
| February 20 | Monday Presidents' Day Holiday |
| March 4 - March 10 | Saturday-Friday MID-SEMESTER EXAMINATIONS |
| March 11 - March 17 | Saturday-Friday Spring vacation |
| March 18 | Classes Resume |
| April 6 | Thursday-Honors Day |
| April 7 | Friday Last day to drop classes or withdraw from school with grades of W |
| April 14 | Good Friday-Holiday |
| April 15 | Saturday-Classes Resume |
| May 5 | Friday Last day of classes |
| May 6 - May 12 | Saturday-Friday FINAL EXAMINATIONS |
| May 12 - November 30 | Friday Official closing of semester |
| May 13 - November 30 | Saturday Commencement Exercises 9:30 a.m. |

**Please note that the academic calendar dates are subject to change.**

## Fall Semester 2017

| | |
|---|---|
| April 17 - Aug-27 | Fall registration period for continuing students http://em.tsu.edu/registrar/acadcalsel.php |
| July 31 | Monday Last day to pay tuition and fees without a late fee for continuing students |
| August 11 | Friday Last day to apply for fall admission |
| August 28 | Monday CLASSES BEGIN |
| September 11 | Monday TWELFTH CLASS DAY |
| September 11 | Last day to drop classes or withdraw from school without grades of W |
| September 15 | Friday Deadline for December graduation |
| September 20 | Last day to pay tuition and fees with a late fee for all students |
| September 20 | Purge of all unpaid course selections |
| September 20 | Wednesday TWENTIETH CLASS DAY |
| October 14-20 | Saturday-Friday MID-SEMESTER EXAMINATIONS |
| November 3 | Friday Last day to drop classes or withdraw from school with grades of W |
| November 27 | Monday Classes resume |
| December 8 | Friday Last day of classes |
| December 9-15 | Saturday-Friday FINAL EXAMINATIONS |
| December 15 | Friday Official closing of semester |
| December 16 | Saturday Commencement Exercises 9:30 a.m. |
| December 16 | Residence Halls close |

**Please note that the academic calendar dates are subject to change.**

## Spring 2018 Semester

| | |
|---|---|
| November 13- Jan. 15 | Spring registration period for continuing students http://em.tsu.edu/registrar/acadcalsel.php |
| January 5 | Friday Last day to apply for spring admission |
| January 12 | Friday Last day to pay tuition and fees without a late fee for continuing |
| January 15 | Monday Martin Luther King, Jr. Day Holiday |
| January 16 | Tuesday CLASSES BEGIN |
| January 16 - January 19 | Tuesday-Friday Change of program period |
| January 29 | Monday TWELFTH CLASS DAY |
| January 29 | Last day to drop classes or withdraw from school without grades of W |
| February 2 | Friday Deadline for applying for May Graduation |
| February 7 | Last day to pay tuition and fees with a late fee for all students |
| February 7 | Purge of all unpaid course selections |
| February 7 | Wednesday TWENTIETH CLASS DAY |
| February 19 | Monday Presidents' Day Holiday |
| March 3 - March 9 | Saturday-Friday MID-SEMESTER EXAMINATIONS |
| March 10 - March 16 | Saturday-Friday Spring vacation |
| March 17 | Classes Resume |
| March 30 | Good Friday-Holiday |
| March 31 | Saturday-Classes Resume |
| April 5 | Thursday-Honors Day |
| April 6 | Friday Last day to drop classes or withdraw from school with grades of W |
| May 4 | Friday Last day of classes |
| May 5 - May 11 | Saturday-Friday FINAL EXAMINATIONS |
| May 11 | Friday Official closing of semester |
| May 12 | Saturday Commencement Exercises 9:30 a.m. |

**Please note that the academic calendar dates are subject to change.**

THIS WEEK

# AUGUST 2016

| July | | | | | | |
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| 31 | | | | | | |

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| September | | | | | | |
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PRIORITY THIS WEEK:

22 MONDAY

23 TUESDAY

24 WEDNESDAY

| THURSDAY 25 | FRIDAY 26 | SATURDAY 27 | SUNDAY 28 |
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# AUGUST 2016

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## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 29

## TUESDAY 30

## WEDNESDAY 31

| THURSDAY SEPT. 1 | FRIDAY SEPT. 2 | SATURDAY SEPT. 3 | SUNDAY SEPT. 4 |
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THIS WEEK

# SEPTEMBER 2016

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PRIORITY THIS WEEK:

5 MONDAY

6 TUESDAY

7 WEDNESDAY

| THURSDAY 08 | FRIDAY 09 | SATURDAY 10 | SUNDAY 11 |
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THIS WEEK

# SEPTEMBER 2016

August

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September

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October

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| 30 | 31 | | | | | |

PRIORITY THIS WEEK:

12 MONDAY

13 TUESDAY

14 WEDNESDAY

| THURSDAY 15 | FRIDAY 16 | SATURDAY 17 | SUNDAY 18 |
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THIS WEEK

# SEPTEMBER 2016

August

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September

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October

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| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

PRIORITY THIS WEEK:

MONDAY 19

TUESDAY 20

WEDNESDAY 21

THURSDAY 22

FRIDAY 23

SATURDAY 24

SUNDAY 25

THIS WEEK

# SEPTEMBER 2016

August

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

September

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

October

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

PRIORITY THIS WEEK:

MONDAY 26

TUESDAY 27

WEDNESDAY 28

| THURSDAY 29 | FRIDAY 30 | SATURDAY OCT. 1 | SUNDAY OCT. 2 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# OCTOBER 2016

| September | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

| October | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

PRIORITY THIS WEEK:

3 MONDAY

4 TUESDAY

5 WEDNESDAY

| THURSDAY 6 | FRIDAY 7 | SATURDAY 8 | SUNDAY 9 |
| --- | --- | --- | --- |
| | | | |

# OCTOBER 2016


## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 10

## TUESDAY 11

## WEDNESDAY 12

| THURSDAY 13 | FRIDAY 14 | SATURDAY 15 | SUNDAY 16 |
| --- | --- | --- | --- |
| | | | |

# OCTOBER 2016

| September | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

| October | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 17

## TUESDAY 18

## WEDNESDAY 19

| THURSDAY 20 | FRIDAY 21 | SATURDAY 22 | SUNDAY 23 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# OCTOBER 2016

| September | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

| October | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

PRIORITY THIS WEEK:

24 MONDAY

25 TUESDAY

26 WEDNESDAY

THURSDAY 27

FRIDAY 28

SATURDAY 29

SUNDAY 30

# NOVEMBER 2016


## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY OCT. 31

## TUESDAY 1

## WEDNESDAY 2

THURSDAY 3

FRIDAY 4

SATURDAY 5

SUNDAY 6

# NOVEMBER 2016

October

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

November

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

December

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 7

## TUESDAY 8

## WEDNESDAY 9

| THURSDAY 10 | FRIDAY 11 | SATURDAY 12 | SUNDAY 13 |
| --- | --- | --- | --- |
| | | | |

# NOVEMBER 2016

| October | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| December | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 14

## TUESDAY 15

## WEDNESDAY 16

THURSDAY 17

FRIDAY 18

SATURDAY 19

SUNDAY 20

# NOVEMBER 2016

| October | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| December | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 21

## TUESDAY 22

## WEDNESDAY 23

THURSDAY 24

FRIDAY 25

SATURDAY 26

SUNDAY 27

# NOVEMBER 2016

| October | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| December | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 28

## TUESDAY 29

## WEDNESDAY 30

**THURSDAY** DEC. 1

**FRIDAY** DEC. 2

**SATURDAY** DEC. 3

**SUNDAY** DEC. 4

THIS WEEK

# DECEMBER 2016

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| December | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

| January | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

PRIORITY THIS WEEK:

5 MONDAY

6 TUESDAY

7 WEDNESDAY

THURSDAY 8

FRIDAY 9

SATURDAY 10

SUNDAY 11

THIS WEEK

# DECEMBER 2016

November

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

December

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

PRIORITY THIS WEEK:

12 MONDAY

13 TUESDAY

14 WEDNESDAY

THURSDAY 15

FRIDAY 16

SATURDAY 17

SUNDAY 18

THIS WEEK

# DECEMBER 2016

November

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

December

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

PRIORITY THIS WEEK:

MONDAY 19

TUESDAY 20

WEDNESDAY 21

THURSDAY 22

FRIDAY 23

SATURDAY 24

SUNDAY 25

THIS WEEK

# DECEMBER 2016

| November | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| December | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

| January | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

PRIORITY THIS WEEK:

MONDAY 26

TUESDAY 27

WEDNESDAY 28

| THURSDAY 29 | FRIDAY 30 | SATURDAY 31 | SUNDAY JAN. 1 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# JANUARY 2017

| December | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

| January | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

| February | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

PRIORITY THIS WEEK:

2 MONDAY

3 TUESDAY

4 WEDNESDAY

THURSDAY 5

FRIDAY 6

SATURDAY 7

SUNDAY 8

THIS WEEK

# JANUARY 2017

December

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

February

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

PRIORITY THIS WEEK:

9 MONDAY

10 TUESDAY

11 WEDNESDAY

| THURSDAY 12 | FRIDAY 13 | SATURDAY 14 | SUNDAY 15 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# JANUARY 2017

December

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

February

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

PRIORITY THIS WEEK:

MONDAY 16

TUESDAY 17

WEDNESDAY 18

THURSDAY 19

FRIDAY 20

SATURDAY 21

SUNDAY 22

# JANUARY 2017

December

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

February

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 23

## TUESDAY 24

## WEDNESDAY 25

THURSDAY 26

FRIDAY 27

SATURDAY 28

SUNDAY 29

# FEBRUARY 2017

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

February

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

March

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY JAN. 30

## TUESDAY JAN. 31

## WEDNESDAY 1

THURSDAY 2

FRIDAY 3

SATURDAY 4

SUNDAY 5

THIS WEEK

# FEBRUARY 2017

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

February

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

March

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

PRIORITY THIS WEEK:

6 MONDAY

7 TUESDAY

8 WEDNESDAY

THURSDAY 9

FRIDAY 10

SATURDAY 11

SUNDAY 12

THIS WEEK

# FEBRUARY 2017

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

February

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

March

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

PRIORITY THIS WEEK:

MONDAY 13

TUESDAY 14

WEDNESDAY 15

| THURSDAY 16 | FRIDAY 17 | SATURDAY 18 | SUNDAY 19 |
| --- | --- | --- | --- |
| | | | |

# FEBRUARY 2017

January

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

February

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

March

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 20

## TUESDAY 21

## WEDNESDAY 22

| THURSDAY 23 | FRIDAY 24 | SATURDAY 25 | SUNDAY 26 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# MARCH 2017


PRIORITY THIS WEEK:

MONDAY FEB. 27

TUESDAY FEB. 28

WEDNESDAY 1

THURSDAY 2

FRIDAY 3

SATURDAY 4

SUNDAY 5

THIS WEEK

# MARCH 2017

| February | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

| March | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

| April | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

PRIORITY THIS WEEK:

MONDAY 6

TUESDAY 7

WEDNESDAY 8

| THURSDAY 9 | FRIDAY 10 | SATURDAY 11 | SUNDAY 12 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# MARCH 2017

| February | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

| March | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

| April | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

PRIORITY THIS WEEK:

MONDAY 13

TUESDAY 14

WEDNESDAY 15

THURSDAY 16

FRIDAY 17

SATURDAY 18

SUNDAY 19

THIS WEEK

# MARCH 2017


PRIORITY THIS WEEK:

MONDAY 20

TUESDAY 21

WEDNESDAY 22

THURSDAY 23

FRIDAY 24

SATURDAY 25

SUNDAY 26

THIS WEEK

# MARCH 2017

| February | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

| March | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

| April | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

PRIORITY THIS WEEK:

27 MONDAY

28 TUESDAY

29 WEDNESDAY

| THURSDAY 30 | FRIDAY 31 | SATURDAY APRIL 1 | SUNDAY APRIL 2 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# APRIL 2017


PRIORITY THIS WEEK:

3 MONDAY

4 TUESDAY

5 WEDNESDAY

THURSDAY 6

FRIDAY 7

SATURDAY 8

SUNDAY 9

# APRIL 2017


## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 10

## TUESDAY 11

## WEDNESDAY 12

| THURSDAY 13 | FRIDAY 14 | SATURDAY 15 | SUNDAY 16 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# APRIL 2017

| March | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

| April | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

| May | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

PRIORITY THIS WEEK:

MONDAY 17

TUESDAY 18

WEDNESDAY 19

THURSDAY 20

FRIDAY 21

SATURDAY 22

SUNDAY 23

THIS WEEK

# APRIL 2017

| March | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

| April | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

| May | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

PRIORITY THIS WEEK:

MONDAY 24

TUESDAY 25

WEDNESDAY 26

| THURSDAY 27 | FRIDAY 28 | SATURDAY 29 | SUNDAY 30 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# MAY 2017


PRIORITY THIS WEEK:

1 MONDAY

2 TUESDAY

3 WEDNESDAY

THURSDAY 4

FRIDAY 5

SATURDAY 6

SUNDAY 7

# MAY 2017


## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 8

## TUESDAY 9

## WEDNESDAY 10

| THURSDAY 11 | FRIDAY 12 | SATURDAY 13 | SUNDAY 14 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# MAY 2017

| April | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

| May | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

| June | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

PRIORITY THIS WEEK:

15 MONDAY

16 TUESDAY

17 WEDNESDAY

THURSDAY 18

FRIDAY 19

SATURDAY 20

SUNDAY 21

THIS WEEK

# MAY 2017

| April | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

| May | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

| June | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

PRIORITY THIS WEEK:

22 MONDAY

23 TUESDAY

24 WEDNESDAY

THURSDAY 25

FRIDAY 26

SATURDAY 27

SUNDAY 28

THIS WEEK

# MAY/JUNE 2017

April

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

May

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

June

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

PRIORITY THIS WEEK:

29 MONDAY

30 TUESDAY

31 WEDNESDAY

**THURSDAY** JUNE 1

**FRIDAY** JUNE 2

**SATURDAY** JUNE 3

**SUNDAY** JUNE 4

THIS WEEK

# JUNE 2017


PRIORITY THIS WEEK:

5 MONDAY

6 TUESDAY

7 WEDNESDAY

THURSDAY 08

FRIDAY 09

SATURDAY 10

SUNDAY 11

# JUNE 2017


## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 12

## TUESDAY 13

## WEDNESDAY 14

| THURSDAY 15 | FRIDAY 16 | SATURDAY 17 | SUNDAY 18 |
| --- | --- | --- | --- |
| | | | |

# JUNE 2017

May

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

June

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

July

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 19

## TUESDAY 20

## WEDNESDAY 21

| THURSDAY 22 | FRIDAY 23 | SATURDAY 24 | SUNDAY 25 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# JUNE 2017


PRIORITY THIS WEEK:

MONDAY 26

TUESDAY 27

WEDNESDAY 28

| THURSDAY 29 | FRIDAY 30 | SATURDAY JULY 1 | SUNDAY JULY 2 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# JULY 2017

June

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

July

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

August

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

PRIORITY THIS WEEK:

3 MONDAY

4 TUESDAY

5 WEDNESDAY

| THURSDAY 6 | FRIDAY 7 | SATURDAY 8 | SUNDAY 9 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# JULY 2017


PRIORITY THIS WEEK:

MONDAY 10

TUESDAY 11

WEDNESDAY 12

| THURSDAY 13 | FRIDAY 14 | SATURDAY 15 | SUNDAY 16 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# JULY 2017

June

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

July

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

August

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

PRIORITY THIS WEEK:

17 MONDAY

18 TUESDAY

19 WEDNESDAY

THURSDAY 20

FRIDAY 21

SATURDAY 22

SUNDAY 23

THIS WEEK

# JULY 2017

June

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

July

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

August

| Su | Mo | Tu | We | Th | Fr | Sa |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

PRIORITY THIS WEEK:

24 MONDAY

25 TUESDAY

26 WEDNESDAY

THURSDAY 27

FRIDAY 28

SATURDAY 29

SUNDAY 30

THIS WEEK

# AUGUST 2017

| July | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| August | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

| September | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

PRIORITY THIS WEEK:

MONDAY JULY 31

TUESDAY 1

WEDNESDAY 2

THURSDAY 3

FRIDAY 4

SATURDAY 5

SUNDAY 6

# AUGUST 2017


## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 7

## TUESDAY 8

## WEDNESDAY 9

| THURSDAY 10 | FRIDAY 11 | SATURDAY 12 | SUNDAY 13 |
| --- | --- | --- | --- |
| | | | |

THIS WEEK

# AUGUST 2017

| July | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| August | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

| September | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

PRIORITY THIS WEEK:

MONDAY 14

TUESDAY 15

WEDNESDAY 16

| THURSDAY 17 | FRIDAY 18 | SATURDAY 19 | SUNDAY 20 |
| --- | --- | --- | --- |
| | | | |

# AUGUST 2017


## THIS WEEK

PRIORITY THIS WEEK:

## MONDAY 21

## TUESDAY 22

## WEDNESDAY 23

| THURSDAY 24 | FRIDAY 25 | SATURDAY 26 | SUNDAY 27 |
| --- | --- | --- | --- |
| | | | |

# AUGUST 2017

| July | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| August | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

| September | | | | | | |
|---|---|---|---|---|---|---|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

## THIS WEEK

PRIORITY THIS WEEK:

## 28 MONDAY

## 29 TUESDAY

## 30 WEDNESDAY

| THURSDAY 31 | FRIDAY SEPT. 1 | SATURDAY SEPT. 2 | SUNDAY SEPT. 3 |
| --- | --- | --- | --- |
| | | | |

# Units of Measurement

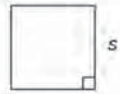
| U.S. Unit | Equivalent | Metric Unit | Equivalent |
|---|---|---|---|
| **LENGTH** | | | |
| 1 foot (ft) | 12 inches (in) | 1 centimeter (cm) | 10 millimeters (mm) |
| 1 yard (yd) | 3 feet (ft) | 1 meter (m) | 100 centimeters (cm) |
| 1 rod (rd) | 5.5 yards (yd) | 1 kilometer (km) | 1,000 meters (m) |
| 1 mile (mi) | 1,760 yards (yd) | | |
| **MASS** | | | |
| 1 dram (dr) | 27.344 grains (gr) | 1 kilogram (kg) | 1,000 grams (g) |
| 1 ounce (oz) | 16 drams | 1 tonne (t) | 1,000 kilograms |
| 1 pound (lb) 16 ounces | | | |
| 1 hundredweight (cwt) Long | 112 pounds | | |
| 1 hundredweight (cwt) | 100 pounds | | |
| Short | | | |
| 1 ton (long) | 2,240 pounds | | |
| 1 ton (short) | 2,000 pounds | | |
| **AREA** | | | |
| 1 square foot ($ft^2$) | 144 square inches ($in^2$) | 1 square centimeter (cm) | 100 square centimeter (mm) |
| 1 square yard ($yd^2$) | 9 square feet | 1 square meter ($m^2$) | 10,000 square centimeters (cm) |
| 1 acre | 4,840 square yards ($yd^2$) | 1 hectare | 10,000 square meters |
| 1 square mile | 640 acres | 1 square kilometer | 1,000,000 square meters ($m^2$) |
| **VOLUME** | | | |
| 1 cubic foot | 1,728 cubic inches | 1 cubic centimeter (cc) | 1 milliliter (ml) |
| 1 cubic yard | 27 cubic feet | 1 liter (l) | 1,000 milliliters |
| | | 1 cubic meter ($m^3$) | 1,000 liters |
| **CAPACITY (liquid and dry measures)** | | | |
| 1 fluidram (fl dr) | 60 minims (min) | 1 centiliter (cl) | 10 milliliters (ml) |
| 1 fluid ounce (fl oz) | 8 fluidrams | 1 deciliter (dl) | 10 centiliters |
| 1 gill (gi) | 4 fluid ounces | 1 liter (1) | 10 deciliters |
| 1 pint (pt) | 4 gills | 1 decaliter (dal) | 10 liters |
| 1 quart (qt) | 2 pints | 1 hectoliter (hl) | 10 decaliters |
| 1 gallon (gal) | 4 quarts | 1 kiloliter (hl) | 10 hectoliters |
| 1 peck (pk) | 2 gallons | | |
| 1 bushel (bu) | 4 pecks | | |

# Geometric Formulas

## Rectangle

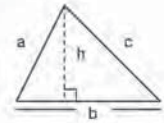

Perimeter: $P = 2l + 2w$
Area: $A = lw$

## Square




Perimeter: $P = 4s$
Area: $A = s^2$

## Triangle

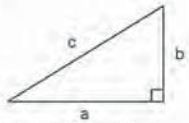



Perimeter: $P = a + b + c$
Area: $A = \frac{1}{2} b h$

## Sum of Angles Of Triangle

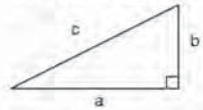

$A + B + C = 180°$
The sum of the measures of the three angles is $180°$.

## Right Triangle



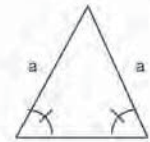

Perimeter: $P = a + b + c$
Area: $A = \frac{1}{2} ab$
One $90°$ (right) angle

## Pythagorean Theorem (for right triangles)



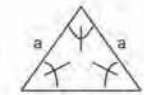

$a^2 + b^2 = c^2$

## Isosceles Triangle



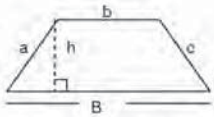

Triangle has two equal sides and two equal angles.

## Equilateral Triangle



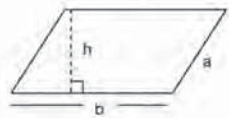

Triangle has three equal sides and three equal angles.

## Trapezoid



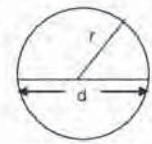

Perimeter: $P = a + b + c + B$
Area: $A = \frac{1}{2} h (B + b)$

## Parallelogram



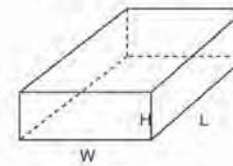

Perimeter: $P = 2a + 2b$
Area: $A = bh$

## Circle



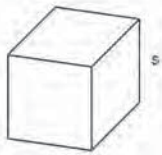

Circumference: $C = \pi d$
$C = 2\pi r$
Area: $A = \pi r^2$

## Rectangular Solid



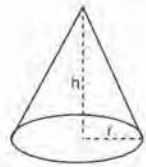

Volume: $V = LWH$
Surface Area: $S = 2LH + 2LW + 2WH$

## Cube



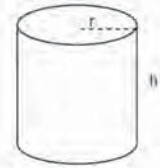

Volume: $V = s^3$

## Cone



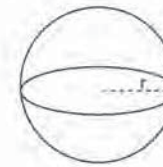

Volume: $V = \frac{1}{3} \pi r^2 h$

## Right Circular Cylinder




Volume: $V = \pi r^2 h$
Surface Area: $SA = 2\pi r^2 + 2\pi r h$

## Sphere




Volume: $V = \frac{4}{3} \pi r^3$

## Other Formulas:

Distance: $d = rt$ ($r$ = rate, $t$ = time)
Percent: $p = br$ ($p$ = percentage, $b$ = base, $r$ = rate)

Temperature: $F = \frac{9}{5} C + 32$ $\quad C = \frac{5}{9} (F - 32)$

Simple Interest: $I = Prt$
($P$ = principal, $r$ = rate, $t$ = time in years)

# Physics Equations

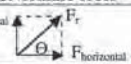
## Measurements

| | |
|---|---|
| **Base SI Units** | |
| Kg | SI Unit for mass: Kilogram |
| m | SI Unit for length: metre |
| s | SI Unit for time: second |
| A | SI Unit for current: Ampere |
| K | SI Unit for Temperature: Kelvin |
| mol | SI Unit for Amount of substance: molar |
| **Number Prefix** | |
| n ($10^{-9}$) | nano |
| μ ($10^{-6}$) | micro |
| m ($10^{-3}$) | milli |
| c ($10^{-2}$) | centi |
| d ($10^{-1}$) | deci |
| K ($10^{3}$) | Kilo |
| M ($10^{6}$) | Mega |

## Kinematics

| | |
|---|---|
| **Average Speed** $s = \Delta d / \Delta t$ | Δd = total distance travelled (area under speed-time graph) |
| | Δx = total displacement |
| **Average Velocity** $v = \Delta x/\Delta t$ | Δt = total time taken |
| | Δv = change in velocity |
| **Acceleration** $a = \Delta v/\Delta t$ | **Velocity** (slope of displacement-time graph) |
| | **Acceleration** (slope of velocity-time graph) |
| $v = u + at$ | u = initial velocity |
| $x = ut + \frac{1}{2}at^2$ | v = final velocity |
| $v^2 = u^2 + 2ax$ | t = time |
| | a = acceleration |
| | x = displacement |
| $v_{free\ fall} = \sqrt{2gh}$ | h = height |
| | g = gravitational constant = 9.81 m/s$^2$ |

## Dynamics

| | |
|---|---|
| **Newton's First Law** $\sum \vec{F} = 0$ at equilibrium | A body continues to stay in its state of rest or uniform motion in a straight line as long as there is no net force/moment acting on the body. |
| **Newton's Second Law** $F = ma$ | The acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass. |
| **Newton's Third Law** | For every force object A acts on object B, object B will exert an equal and opposite force on object A giving rise to **Reaction/Normal Forces** |
| **Resolving forces** $F_{horizontal} = F_r \cos\Theta$ $F_{vertical} = F_r \sin\Theta$ |   |

## Mass, Weight, Density

| | |
|---|---|
| **Weight** $w = mg$ | w = Weight<br>m = mass<br>g = gravitational field strength |
| **Density** $\rho = \frac{m}{V}$ | ρ = density<br>m = mass<br>V = volume |

## Turning effect of Force

| | |
|---|---|
| **Moment of Force** $M = F d$ | M = Moment<br>F = force<br>d = ⊥ distance from force to pivot |
| **Principle of Moment** Σ Anticlockwise Moment = Σ Clockwise Moment | For a body in rotational equilibrium, Sum of ACW Moment = sum of CW Moment |

## Pressure

| | |
|---|---|
| **Pressure** $P = \frac{F}{A}$ | P = Pressure<br>F = Force over area, A<br>A = Area |
| **Pressure of liquid column** $P = h\rho g$ | P = Pressure<br>ρ = density,<br>h = height of liquid column<br>g = gravitational field strength. |

## Energy, Work and Power

| | |
|---|---|
| **Work Done** $W = Fd$ | W = work done<br>F= force<br>d= distance in direction of force |
| **Power** $P = W/t = Fv$ | Work done per unit time, t |
| **Kinetic Energy** $E_k = \frac{1}{2}mv^2$ | $E_k$ = Kinetic Energy<br>m = mass<br>v = velocity |
| **Gravitational Potential Energy** $E_p = mgh$ | g = gravity =9.81 m/s<br>h = height<br>m = mass |
| **Conservation of Energy** $E_1 = E_2$ | $E_1$ = Total Energy Before<br>$E_2$ = Total Energy After<br>Energy cannot be created or destroyed. It can only be transformed or converted into other forms. |

## Kinetic Model of Matter

| | |
|---|---|
| **Ideal Gas Law** $PV \propto T$ | P = pressure of fixed mass of gas<br>V = volume occupies by fixed mass of gas<br>T = Temperature of gas |
| $P_1V_1 = P_2V_2$ | Subscript 1 = initial state<br>Subscript 2 = final state |

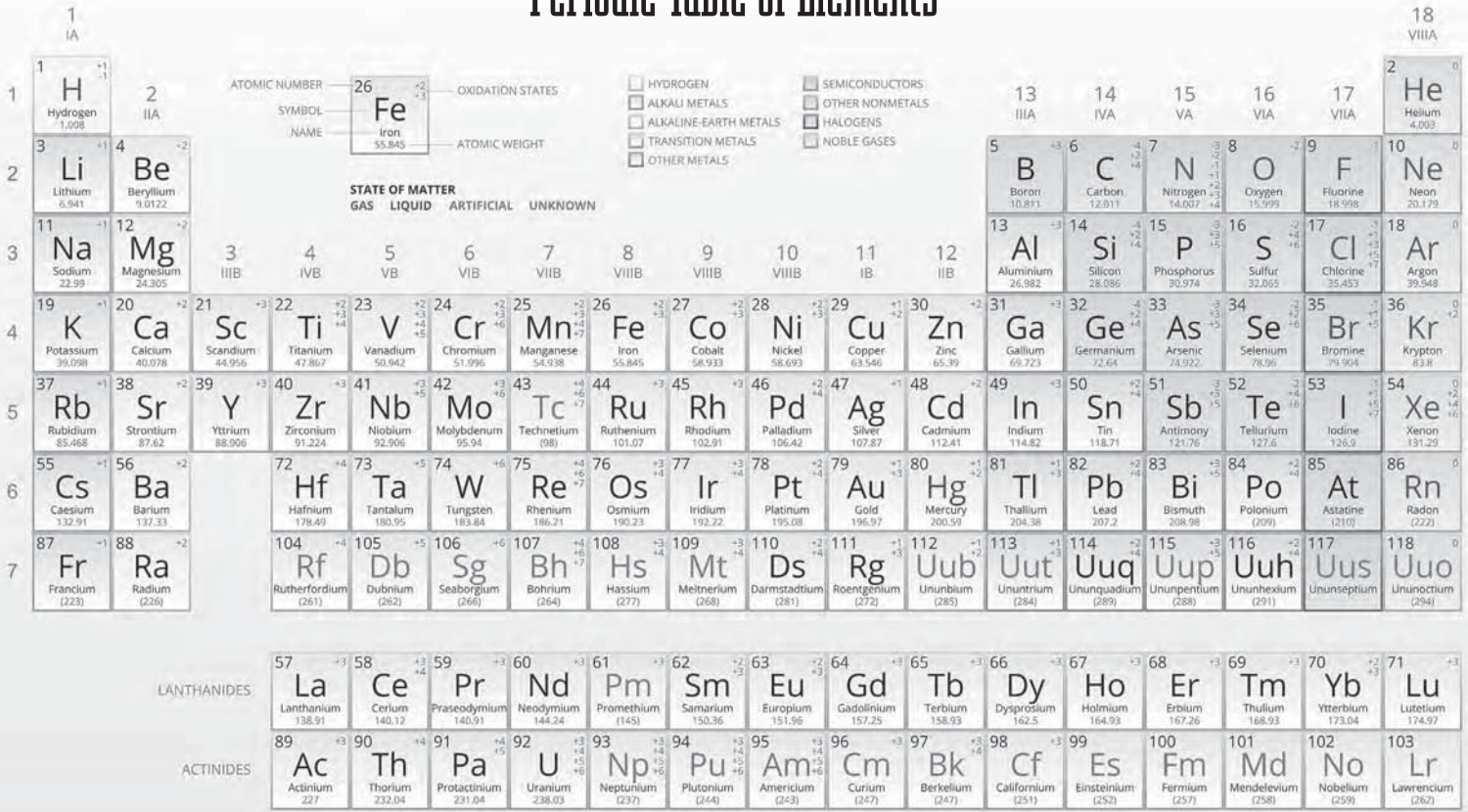
## Thermal Properties of Matter

| | |
|---|---|
| **Specific Heat Capacity** $E = m\,c\,\Delta T$ | c = Specific heat capacity (Energy required to raise the temperature of 1kg of the object by 1 °C)<br>m = mass<br>ΔT = change in temperature. |
| **Latent Heat**<br>For melting, $E = m\,L_{fusion}$<br><br>For boiling, $E = m\,L_{vaporization}$ | $L_{fusion}$ = latent heat of fusion (Energy required to change 1kg of solid to liquid at the constant temp)<br>$L_{vaporization}$ = latent heat of vaporization (Energy required to change 1kg of liquid to gas at the constant temp)<br>m = mass |

## General Wave Properties

| | |
|---|---|
| **Wave Velocity** $v = f\lambda$ | v = velocity of a wave<br>f = frequency<br>λ = wavelength |
| **Wave frequency** $f = \frac{1}{T}$ | T = Period<br>f = frequency |

# Periodic Table of Elements



# 2016

**January**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 31 | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

**February**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | | | | | |

**March**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

**April**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

**May**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

**June**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

**July**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 31 | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

**August**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

**September**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

**October**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 30 | 31 | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

**November**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

**December**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

# 2017

**January**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

**February**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | | | | |

**March**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

**April**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 30 | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

**May**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

**June**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

**July**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 30 | 31 | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

**August**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

**September**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

**October**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

**November**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

**December**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 31 | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

# 2018

**January**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

**February**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | | | |

**March**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

**April**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

**May**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

**June**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

**July**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

**August**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

**September**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 30 | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

**October**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

**November**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

**December**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 30 | 31 | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

# 2019

**January**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

**February**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | | |

**March**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 31 | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

**April**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

**May**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

**June**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 30 | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

**July**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

**August**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

**September**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

**October**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

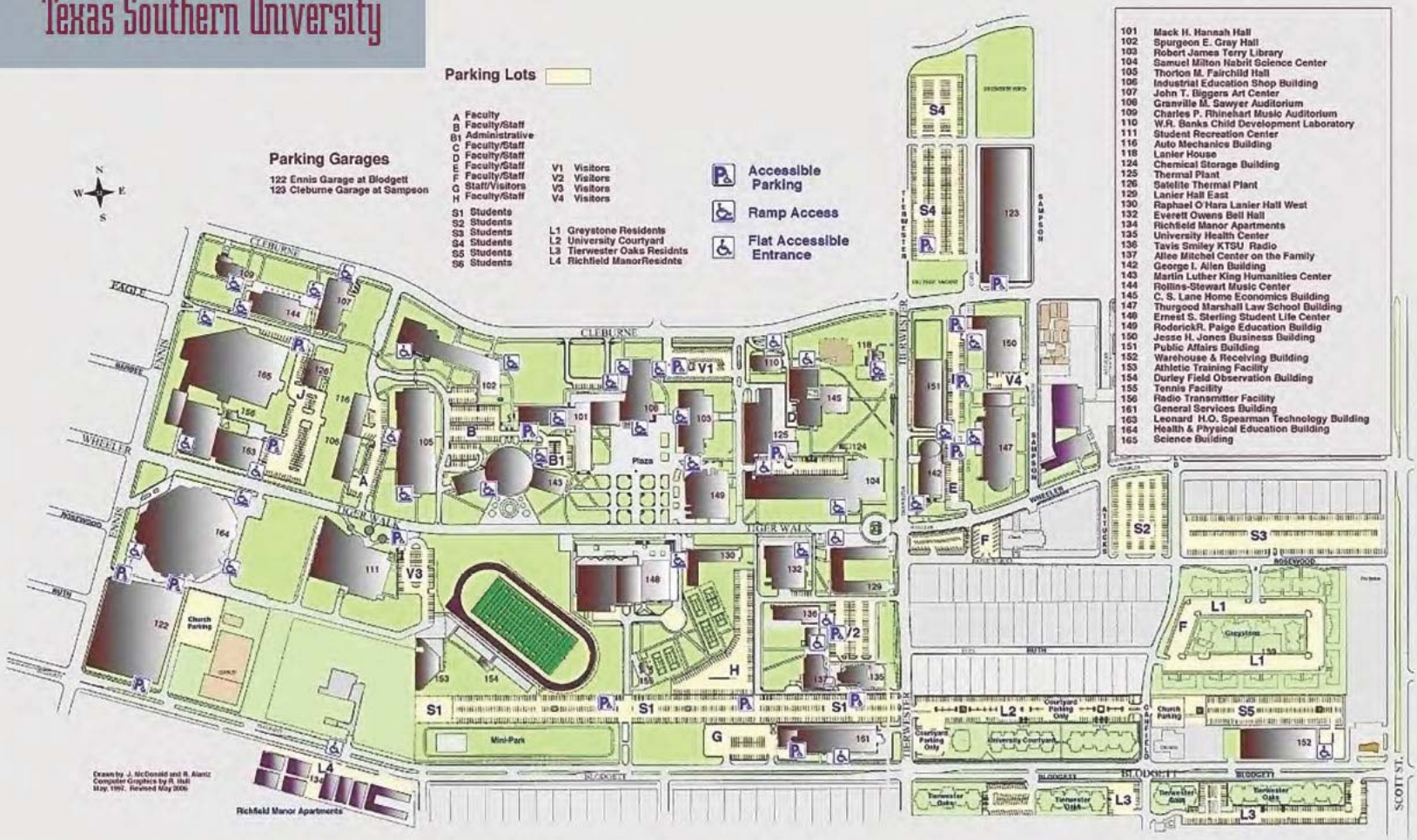
**November**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

**December**

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

# Texas Southern University

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