TEXAS SOUTHERN UNIVERSITY



College of Science, Engineering and Technology

STUDENT 2016 HANDBOOK 2017 & PLANNER 2017



TEXAS SOUTHERN UNIVERSITY COLLEGE of SCIENCE, ENGINEERING AND TECHNOLOGY (COSET)

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2016-2017 Student Handbook & Planner

This book property of:

Name:
Address:
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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

elcome 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 topof-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

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:

 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.

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List of Academic Programs

www.coset.tsu.edu

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Academic Programs

Aviation Science and Technology

Undergraduate DegreeBachelor 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

programs in the College are accredited by on Colleges the Commission of the Southern Colleges and Schools, but 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 \circ f the Accreditation Board and Technology (ETAC of ABET). Engineering programs in the undergraduate Department 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 by ATMAE. The undergraduate accredited 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



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	0-29	30-59	60-89	90+
earned				

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 makeup 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 reinstatement, 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
В	Good	2.00	3.00
С	Average	1.00	2.00
D	Poor but Passing	0	1.00
1	Incomplete	0	0
F	Failure	0	0
W	Withdrawal	0	0
S	Satisfactory		0
U	Unsatisfactory		
N	No Grade Submitted		0
Р	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
Α-	Intermediate Grade	3.67
B+	Intermediate Grade	3.33
В	Good	3.00
B-	Intermediate Grade	2.67
C+	Intermediate Grade	2.33
С	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
Р	Passing	0
R	In Progress	0
S	Satisfactory	0
U	Unsatisfactory	0
W	Withdrawal	0
WT	Withdrawal,	
	Test Requirement	0
	NOT Fulfilled	

- 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 midsemester 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.





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

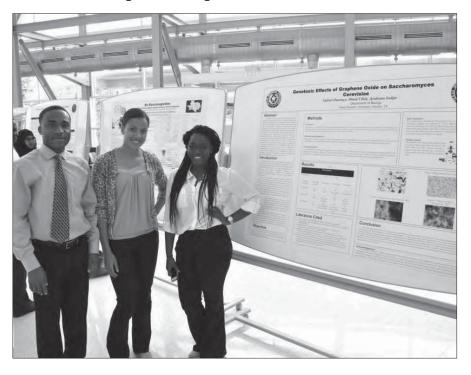


Student Services and Instructional Support for final consideration. The suspended student will be notified in writing of the decision. Students allowed to return from suspension will be admitted under probationary status. After advisement in their home department, the student enrollment request, and 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

- 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		One from the following	two courses:
Sciences	6	CHEM 131 (3)	CHEM 1311
		BIOL 143 (3)	BIOL 1308
		Plus one from the follo	wing 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,		One from the following	courses:
Philosophy &	3	ENG 230 (3)	ENG 2332
Culture		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 /	6	POLS 235 (3) and	GOVT 2305 and
Political Science		POLS 236 (3)	GOVT 2306
Social and		One from the following	courses:
Behavioral	3	ECON 231 (3)	ECON 2301
Sciences		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	6	Two courses from two d	ifferent categories:
Options		African American Stud	ies:
		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: - Speech Communication SC135 (3) or SC 136 (3)	SPCH 1321 or SPC	CH 1315			
- Foreign Language:	Speech Communication				
CHNS 131 (3) or higher, or	CHIN 1311				
FR 131 (3) or higher, or	FREN 1311				
SPAN 131 (3) or higher	SPAN 1132				
- African American Studies:					
- HIST 281 (3)	HIST 2381				
- ART 139 (3) or	ENGL 2376				
- ENG 244 (3) or					
- SOC 254 (3)					



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			SECOND SEMESTER		
COURSE		HRS	COURSE		HRS	
ENG 131	English I	3	ENG 132	English II	3	
MATH 133	College Algebra	3	MATH 134	Trigonometry	3	
AVST 103	Private Pilot Ground	3	AVST 218	Instrument Ground	3	
AVST 105	Private Pilot Flight	3	AVST 218L	Instrument Flight-Lab	1	
AVST 105L	Private Pilot-Flight Lab	3	CS 116	Intro. To Computer Science	3	
			SC 135	Business and Professional Communication	n 3	
		15			16	
	FIRST YEAR TOTAL CREDITS: 31					

SECOND YEAR							
	THIRD SEMESTER			FOURTH SEMESTER			
COURSE		HRS	COURSE		HRS		
CHEM 131	General Chemistry	3	PHYS 238	College Physics II	3		
AVST 312	Commercial Pilot Certificate	3	PHYS 214	College Physics II Lab	1		
AVST 312L	Commercial Pilot Certificate Lab	1	AVST 311	Intermediate Flight	3		
PHYS 237	College Physics I	3	AVST 201	Flight Meteorology	3		
PHYS 213	College Physics I Lab	1	POLS 236	American Political Systems II	3		
MATH 241	Calculus	4	ENG 2xx	Any 200 Level English	3		
POLS 235	American Political System I	3]				
		18			16		
				SECOND YEAR TOTAL C	REDITS: 34		

THIRD YEAR							
	FIFTH SEMESTER			SIXTH SEMESTER			
COURSE		HRS	COURSE		HRS		
HIST 231	Soc. Political History US I	3	HIST 232	Soc. Political History of US II	3		
AVST 315	Multi Engine Rating	3	MUSIC 239	Fine Arts and Daily Living	3		
AVST 315L	Multi-Engine Rating Lab	1	AVST 380	CFI Airplane	3		
MGMT 300	Principles of Management	3	AVST 380L	CFI Airplane Lab	1		
AVST 305	Fundamentals of Avionics	3	ECON 231	Principles of Economics I	3		
BADM 230	Advance Communication Skills	3					
		16			13		
				THIRD YEAR TOTAL C	REDITS: 29		

FOURTH YEAR							
	SEVENTH SEMESTER			EIGHTH SEMESTER			
COURSE		HRS	COURSE		HRS		
AVST 400	CFI Instrument	3	AVST 425	Flight Physiology	3		
AVST 400L	CFI Instrument Lab	1	ACCT 231	Principles of Accounting I	3		
AVST 313	International Flight Theory	3	AVST 401	Advance Aerodynamics	3		
MGMT 330	Organizational Behavior	3	AVST 408	Multi Engine CFI	3		
AVST 403	Turbo Prop Familiarization	3	AVST 408L	Multi Engine CFI Lab	1		
		16			13		
				FOURTH YEAR TOTAL C	REDITS: 26		
				CURRICULUM TO	STAL 120		

Aviation Science Management

	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	BIOL 143/	Survey Life Sci/Gen Chemistry	3		
AVST 101	Introduction to Aviation	3	CHEM 131				
SC 135/136***	Pub Addr/Bus Prof Comm III	3	AVST 102	Aviation History	3		
CS 120	Introduction to Computers &		MUSIC 239	Fine Arts	3		
	Problem Solving	3	MATH 136	Pre-Calculus	3		
		15			15		
				FIRST YEAR TOTAL CR	EDITS: 30		

	SECOND YEAR							
	THIRD SEMESTER			FOURTH SEMESTER				
COURSE		HRS	COURSE		HRS			
ENG 2XX	Any 200 Level English	3	POLS 236	American Political System II	3			
PHYS 101	Principles of Physical Science	3	HIST 232	US Soc & Pol History II from 1877	3			
POLS 235	American Political System I	3	BA DM 230	Adv. Communications Skills	3			
PSY 131	General Psychology	3	ECON 231	Principles of Econ I	3			
HIST 231	US Soc & Pol. History I to 1877	3	AVST 120	Transportation Survey	3			
		15			16			
				SECOND YEAR TOTAL CRED	ITS: 30			

THIRD YEAR						
	FIFTH SEMESTER			SIXTH SEMESTER		
COURSE		HRS	COURSE		HRS	
AVST 201	Flight Meteorology	3	ACCT 231	Principles of Accounting	3	
AVST 351	Aviation Law	3	AVST 371	Airport Management	3	
MATH 241	Calculus	3	MGSC 239	Business Statistics I	3	
AVST 321	Air Traffic Control	3	AVST 381	Air Carrier Management	3	
AVST 321L	Air Traffic Control Lab	1	AVST Elective	ž **	3	
AVST Elective	6 **	3				
		16			15	
				THIRD YEAR TOTAL	CDEDITS: 31	

FOURTH YEAR							
	SEVENTH SEMESTER			EIGHTH SEMESTER			
COURSE		HRS	COURSE		HRS		
MGMT. 300	Principals of Management	3	AVST 495	Field Work Practicum in Aviation	5		
AVST 404	Flight Safety	3	MGMT 301	Personnel & Human Resource De	3		
AVST 409	General Aviation Management	3	MGMT 330	Organizational Behavior	3		
AVST Elective *	No.	3	AVST Elective	7 ***	3		
AVST Elective *	4-4	3					
		15			14		
				FOURTH YEAR TOTAL CREDI	TS: 29		
				CURRICULUM TOTAL	- 100		

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 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	3	MUSIC 131 or	Intro to Music or Drawing and Comp	3
	Communication or Public Address		ART 131		
		17			17
				FIRST YEAR TOTAL CREDI	TS: 34
		SECON	D 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 Lab	1	CS 116	Computer Science I	3
CHEM 231	Organic Chemistry Lecture	3	HIST 232	Social & Political History of the	3
HIST 231	Social & Political History of the	3]	United States since 1877	
	United States to 1877				
		18			14
			:	SECOND YEAR TOTAL CREDI	TS: 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	Intro to Psychology or Sociology or	3
POLS 235	American Political Systems I	3	SOC 157 or 158	Contemporary Social Issues	
		17			14
				THIRD YEAR TOTAL CREDI	TS: 31
		FOURT	HYEAR		
COURSE	SEVENTH SEMESTER	HRS	COURSE	EIGHTH SEMESTER	line
BIOL 443	Molocular Diologu	1 HKS		Malagular Capatics	HRS 3
2102 110	Molecular Biology		BIOL 450	Molecular Genetics	
BIOL 460	Biostatistics	3	BIOL 454	Immunology	<u>3</u>
BIOL 499	Seminar Overhitative Chemistry Lab	1	BIOL	Electives	р
CHEM 322	Quantitative Chemistry Lab	2	-		
CHEM 332	Quantitative Chemistry Lecture	3			
		13			12
				FOURTH YEAR TOTAL CREDI	
				CURRICULUM TOTAI	- 122

Bachelor of Science Degree in Biology-Pre-Health Professional 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 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	3	MUSIC 131 or	Intro to Music or Drawing and Comp	3	
	Communication or Public Address		ART 131			
		17			17	
				FIRST YEAR TOTAL CREDIT	S: 34	
		SECON	D YEAR			
	THIRD SEMESTER	<u>JEJJN</u>		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 Lab	1	CS 116	Computer Science I	3	
CHEM 231	Organic Chemistry Lecture	3	HIST 232	Social & Political History of the	3	
HIST 231	Social & Political History of the	3	1	United States since 1877		
	United States to 1877					
		18			14	
			:	SECOND YEAR TOTAL CREDIT	rs: 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	Intro to Psychology or Sociology or	3	
POLS 235	American Political Systems I	3	SOC 157 or 158	Contemporary Social Issues		
		17			14	
				THIRD YEAR TOTAL CREDI	TS: 31	
		FOURT	HYEAR			
COURSE	SEVENTH SEMESTER	HRS	COURSE	EIGHTH SEMESTER	HRS	
BIOL 443	Molecular Biology	1 A	BIOL 441	Histology Lecture/Lab		
BIOL 443	Biostatistics	3	BIOL 447	Human Physiology	3	
CHEM 322	Quantitative Chemistry Lab	2	BIOL 447	Intermediary and Cellular Metabolism	3	
CHEM 332	Quantitative Chemistry Lecture	3	BIOL 452	Immunology Lecture/Lab	3	
CHLIT JJZ	additionally certain	13	DIOL 434	ininunology tectule/ Lab	13	
		В		FOURTH YEAR TOTAL CREDIT	10	
				2010K41 YEAR 1017A1E(9K12D)	P- 107 4-1	

2-Year Pre-Nursing Curriculum

		FIRST	YEAR		
	FIRST SEMESTER			SECOND SEMESTER	_
COURSE	33 COV 10 05/45 (VI) 33 A DE 13 PE DE 30 CO DE 90 CO DE 9	HRS	COURSE	700046 cm/nt 4-00444 300 to 10000 0 18-04-0 y cm/nt 4-0111 (14000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HRS
ENG 131	English I	3	ENG 132	English II	3
MATH 133	College Algebra	3	BIOL 136	Human Anatomy & Physiology II	3
BIOL 135	Human Anatomy & Physiology	3	BIOL 136L	Human Anatomy & Physiology Lab II	1
BIOL 135L	Human Anatomy &	1	BIOL 246	Microbiology	4
	Physiology Lab		CHEM 131	General Chemistry Lecture	3
SOC 157	Introduction to Sociology	3	CHEM 111	General Chemistry Lab	1
		13			15
	25.	1-6		FIRST YEAR TOTAL CREDIT	rs: 28
	FIRST SUMMER SESSION			SECOND SUMMER SESSION	
COURSE	SECURITY OF THE PROPERTY OF TH	HRS	COURSE		HRS
HIST 231	Social & Political History of the	3	HIST 232	Social & Political History of the	3
	United States to 1877			United States to 1877	
POLS 235	American Political Systems I	3	POLS 236	American Political Systems II	3
		6			6
				SUMMER TOTAL CREDI	TS: 12

	SEC	CON	D YEAR		
	THIRD SEMESTER			FOURTH SEMESTER	
COURSE		HRS	COURSE		HRS
PSY 131	General Psychology	3	PSY 234	Elementary Statistics	3
NUTR 235	Introduction to Nutrition	3	CS 116	Introduction to Computer Science	3
PHIL 231	Introduction to Philosophy	3	SC 135 or 136	Business and Professional	3
SOCW 345	Human Behavior in Social Environment I	3	1	Communication or Public Address	
				Visual & Performing Arts	3
		12			12
				SECOND YEAR TOTAL CREDI	TS: 24
				CURRICULUM TOTA	L: 64



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

	J		ט	י נו	
		FIRST	YEAR		
COURCE	FIRST SEMESTER	IIDC	COURCE	SECOND SEMESTER	IIDC
COURSE ENG 131	English I	HRS 3	COURSE ENG 132	English II	HRS 3
MATH 136	English I Precalculus Mathematics	3		English II	4
CHEM 131	General Chemistry I Lecture	3	MATH 241 CHEM 132	Calculus & Analytic Geometry I General Chemistry II Lecture	3
	<u> </u>			-	
CHEM 111	General Chemistry I Lab	<u>1</u>	CHEM 112	General Chemistry II Lab	<u>1</u>
BIOL 131 BIOL 111	Biological Science Lecture Biological Science Lab		BIOL 132 BIOL 112	Biological Science II Lecture Biological Science II Lab	1
BIUL III	Biological Science Lead	1	BIUL IIZ	Biological Science II Lab	
		14			15
				FIRST YEAR TOTAL CREDI	TS: 29
		SECON	DYEAR		
COLLECT	THIRD SEMESTER	upe	COLUDE	FOURTH SEMESTER	IIInc
COURSE	Oi- Chi-t I It	HRS	CUEM 272	O	HRS
CHEM 231	Organic Chemistry Lecture	3	CHEM 232	Organic Chemistry II Lecture	3
CHEM 211	Organic Chemistry Lab	1	Chem 212	Organic Chemistry II Lab	1
ENG 2XX	Any 200 Level English	3	MATH 243	Calculus & Analytic Geometry III	4
MATH 242	Calculus & Analytic Geometry II	4	CS 117	Computer Science II	3
CS 116	Computer Science I	3	HIST 232	Social & Political History of the	3
HIST 231	Social & Political History of	3		United States since 1877	
	the United States to 1877	-		Elective	3
		17			17
				SECOND YEAR TOTAL CRED	ITS: 34
	FIFTH SEMESTER	THIRD	YEAR	CIVILL CEMECTER	
COURSE	FIFTH SEMESTER	HRS	COURSE	SIXTH SEMESTER	HRS
CHEM 332	Quantitative Analysis Lecture	3	CHEM 445	Biochemistry Lecture	3
CHEM 322	Quantitative Analysis Lecture	2	CHEM 445	Biochemistry Lab	1
MATH 251	Differential Equations	3	POLS 236	American Political System II	3
POLS 235	American Political System I	3	PHYS 252	University Physics II Lecture	3
PHYS 251	University Physics I Lecture	3	PHYS 218	University Physics II Lab	1
PHYS 217	University Physics I Lab	1	PSY 131 or	Intro to Psychology or Sociology	3
FII13 ZII	University Physics I Law	'	SOC 157	intro to Esychology of Sociology	J
			MUSI 131 or ART	131 Intro to Music or Drawing & Comp	1 3
			or THEA 130	or Introduction to Theatre	. ,
		15			17
				THIRD YEAR TOTAL CRED	ITS: 32
		FOURT	H YEAR		
_	SEVENTH SEMESTER	_		EIGHTH SEMESTER	_
COURSE		HRS	COURSE		HRS
CHEM 431	Physical Chemistry I Lecture	3	CHEM 432	Physical Chemistry II Lecture	3
CHEM 411	Physical Chemistry I Lab	1	CHEM 412	Physical Chemistry II Lab	1
CHEM 450	Inorganic Chemistry I	3	CHEM 451	Inorganic Chemistry II	3
CHEM 454	Research	3	CHEM 453	Instrumental Analysis	3
CHEM 499	Seminar	1	CHEM 4xx		3
SC 135 or 136	Business & Professional	3			
	Communication or Public Address				
		14			13
				FOURTH YEAR TOTAL CRED	
				CURRICULUM TOTA	L: 122

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

		FIRST	YEAR		
	FIRST SEMESTER			SECOND SEMESTER	
COURSE		HRS	COURSE		HRS
ENG 131	English I	3	ENG 132	English II	3
MATH 136	Precalculus Mathematics	3	MATH 241	Calculus & Analytic Geometry I	4
CHEM 131	General Chemistry Lecture	3	CHEM 132	General Chemistry II Lecture	3
CHEM 111	General Chemistry Lab	1	CHEM 112	General Chemistry II Lab	1
BIOL 131	Biological Science Lecture	3	BIOL 132	Biological Science II Lecture	3
BIOL 111	Biological Science I Lab	1	BIOL 112	Biological Science II Lab	1
		14			15
				FIRST YEAR TOTAL CREDITS	S: 29
		SECON	D YEAR		
	THIRD SEMESTER	_		FOURTH SEMESTER	
COURSE		HRS	COURSE		HRS
CHEM 231	Organic Chemistry Lecture	3	CHEM 232	Organic Chemistry II Lecture	3
CHEM 211	Organic Chemistry I Lab	1	Chem 212	Organic Chemistry II Lab	1
ENG 2XX	Any 200 Level English	3		Elective	3
MATH 242	Calculus & Analytic Geometry II	4	CS 117	Computer Science II	3
CS 116	Computer Science I	3	HIST 232	Social & Political History of the	3
HIST 231	Social & Political History of	3		United States since 1877	
	the United States to 1877		MUSI 131 or AR or THEA 130	T 131 Intro to Music or Drawing & Comp I or Introduction to Theatre	3
		17			16
				SECOND YEAR TOTAL CREDIT	
		THIRD	YEAR		
	FIFTH SEMESTER	_		SIXTH SEMESTER	
COURSE		HRS	COURSE		HRS
CHEM 332	Quantitative Analysis Lecture	3	CHEM 445	Biochemistry Lecture	3
CHEM 322	Quantitative Analysis Lab	2	CHEM 445	Biochemistry Lab	1
POLS 235	American Political System I	3	POLS 236	American Political System II	3
PHYS 213	College Physics I Lab	1	PHYS 214	College Physics II Lab	1
PHYS 237	College Physics I Lecture			college i riyalea ii Edb	- 1
		3	PHYS 238	College Physics II Lecture	3
PSY 131 or	Intro to Psychology or Sociology	3	PHYS 238 BIOL 211		
PSY 131 or SOC 157				College Physics II Lecture	3
			BIOL 211	College Physics II Lecture Cell Biology Lab	3
			BIOL 211 BIOL 231	College Physics II Lecture Cell Biology Lab Cell Biology Lecture	3 1 3
		3	BIOL 211 BIOL 231	College Physics II Lecture Cell Biology Lab Cell Biology Lecture	3 1 3 1 16
		3 15	BIOL 211 BIOL 231	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar	3 1 3 1 16
SOC 157		3 15 FOURT	BIOL 211 BIOL 231 CHEM 499	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar	3 1 3 1 16 'S: 31
SOC 157	Intro to Psychology or Sociology SEVENTH SEMESTER	3 15 FOURT	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL GREDIT EIGHTH SEMESTER	3 1 3 1 16 's: 31
COURSE CHEM 431	Intro to Psychology or Sociology SEVENTH SEMESTER Physical Chemistry I Lecture	15 FOURT HRS 3	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE CHEM 432	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL GREDIT EIGHTH SEMESTER Physical Chemistry II Lecture	3 1 3 1 16 's: 31
COURSE CHEM 431 CHEM 411	Intro to Psychology or Sociology SEVENTH SEMESTER Physical Chemistry I Lecture Physical Chemistry I Llab	15 FOURT HRS 3 1	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE CHEM 432 CHEM 412	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL CREDIT EIGHTH SEMESTER Physical Chemistry II Lecture Physical Chemistry II Lab	3 1 3 1 16 **s: 31
COURSE CHEM 431 CHEM 411 CHEM 450	Intro to Psychology or Sociology SEVENTH SEMESTER Physical Chemistry I Lecture Physical Chemistry I Lab Inorganic Chemistry I	3 15 HRS 3 1 3	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE CHEM 432 CHEM 412 CHEM 451	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL CREDIT EIGHTH SEMESTER Physical Chemistry II Lecture Physical Chemistry II Lab Inorganic Chemistry II	3 1 3 1 16 16 18: 31
COURSE CHEM 431 CHEM 411 CHEM 450 BIOL 460	Intro to Psychology or Sociology SEVENTH SEMESTER Physical Chemistry Lecture Physical Chemistry Lab Inorganic Chemistry Biostatistics	15 FOURT HRS 3 1 3 3 3	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE CHEM 432 CHEM 412 CHEM 451 CHEM 453	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL CREDIT EIGHTH SEMESTER Physical Chemistry II Lecture Physical Chemistry II Lab Inorganic Chemistry II Instrumental Analysis	3 1 3 1 16 16 3 3 1 3 3
COURSE CHEM 431 CHEM 411 CHEM 450	Intro to Psychology or Sociology SEVENTH SEMESTER Physical Chemistry I Lecture Physical Chemistry I Lab Inorganic Chemistry I	3 15 HRS 3 1 3	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE CHEM 432 CHEM 412 CHEM 451	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL CREDIT EIGHTH SEMESTER Physical Chemistry II Lecture Physical Chemistry II Lab Inorganic Chemistry II	3 1 3 1 16 16 18: 31
COURSE CHEM 431 CHEM 411 CHEM 450 BIOL 460	Intro to Psychology or Sociology SEVENTH SEMESTER Physical Chemistry I Lecture Physical Chemistry I Lab Inorganic Chemistry I Biostatistics Business & Professional	15 FOURT HRS 3 1 3 3 3	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE CHEM 432 CHEM 412 CHEM 451 CHEM 453	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL CREDIT EIGHTH SEMESTER Physical Chemistry II Lecture Physical Chemistry II Lab Inorganic Chemistry II Instrumental Analysis	3 1 3 1 16 16 3 3 1 3 3
COURSE CHEM 431 CHEM 411 CHEM 450 BIOL 460	Intro to Psychology or Sociology SEVENTH SEMESTER Physical Chemistry I Lecture Physical Chemistry I Lab Inorganic Chemistry I Biostatistics Business & Professional	3 15 HRS 3 1 3 3 3	BIOL 211 BIOL 231 CHEM 499 H YEAR COURSE CHEM 432 CHEM 412 CHEM 451 CHEM 453	College Physics II Lecture Cell Biology Lab Cell Biology Lecture Seminar THIRD YEAR TOTAL CREDIT EIGHTH SEMESTER Physical Chemistry II Lecture Physical Chemistry II Lab Inorganic Chemistry II Instrumental Analysis	3 1 3 1 16 15: 31 HRS 3 1 3 3 4

Bachelor of Science Degree in Computer Science-General CS Concentration

	F	IRST	YEAR		
	FIRST SEMESTER			SECOND SEMESTER	_
COURSE		HRS	COURSE		HRS
ENG 131	English I	3	ENG 132	English II	3
MATH 136	Precalculus	3	MATH 241	Calculus & Analytic Geometry I	4
CHEM 131	General Chemistry & Lab I or	3	CS 124	Fund of Machine Comp	3
or BIOL 143	Survey of Life Science		CS 140	Computer Programming in Java	3
MUSIC 131	Intro to Music or Drawing and Comp	3	SC 135	Business & Professional	3
or ART 131			or 136	Communication or Public Address	
CS 120	Introduction to Computers	3	1		
	and Problem Solving"				
		15			16
		13		FIRST YEAR TOTAL CRED	
	SI	ECON	D YEAR		_
	THIRD SEMESTER			FOURTH SEMESTER	_
COURSE		HRS	COURSE		HRS
CS 241	Object Oriented Using C++	3	CS 246	Data & File Structures	3
CS 243	Computer Organization	3	CS 248	Theory of Computation	3
MATH 242	Calculus & Analytic Geometry. II	4	CS 250	Computer Networks Fundamentals	3
PHYS 213	College Physics Lab I	1	MATH 250	Linear Algebra	3
PHYS 237	College Physics I	3	PHYS 214	College Physics Lab II	1
ENG 2XX	Any 200 Level ENG may be selected	3	PHYS 238	College Physics II	3
		17			16
				SECOND YEAR TOTAL CRED	ITS: 33
	1	HIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	
COURSE		HRS	COURSE		HRS
CS 342	Programming Languages and Design	3	CS 346	Database Management Systems	3
CS 343	Microprocessors Design	3	CS 300/400	Computer Science Elective	3
POLS 235	American Political Systems I	3	POLS 236	American Political Systems II	3
HIST 231	Social & Political History	3	HIST 232	Social & Political History of the	3
	of the United States to 1877			United States since 1877	
	Elective Course	3	ECON 231	Principles of Economics I	3
		15			15
				THIRD YEAR TOTAL CREDI	TS: 30
		OURT	HYEAR		
COLLECT	SEVENTH SEMESTER	line.	COLUDE	EIGHTH SEMESTER	UBC
COURSE	On another of Cartanan	HRS	COURSE	C-A Fainin	HRS
CS 444	Operating Systems	3	CS 456	Software Engineering	3
CS 415	Computer Ethics and Society	3	CS 499	Capstone Project	3
CS 400/500	Computer Science Elective	3	CS 400/500	Computer Science Elective	3
MATH 473	Probability and Statistics	3	1	Elective Course	3
	Elective Course	3			
		15			12
				ESTIMATE AND TOTAL AND	TO. 07
				FOURTH YEAR TOTAL CRED CURRICULUM TOTA	

Bachelor of Science Degree in Computer Science-Networking Concentration

		FIRST	YEAR		
	FIRST SEMESTER	_		SECOND SEMESTER	
COURSE		HRS	COURSE		HRS
ENG 131	English I	3	ENG 132	English II	3
MATH 136	Precalculus	3	MATH 241	Calculus & Analytic Geometry I	4
CHEM 131	General Chemistry I or	3	CS 124	Fund of Machine Comp	3
or BIOL 143	Survey of Life Science		CS 140	Computer Programming in Java	3
MUSIC 131 or ART 131	Intro to Music or Drawing and Comp	3	SC 135 or 136	Business & Professional Communication or Public Address	3
CS 120	Introduction to Computers and Problem Solving"	3			
		15			16
				FIRST YEAR TOTAL CRED	
	s	ECON	D YEAR		
	THIRD SEMESTER			FOURTH SEMESTER	_
COURSE		HRS	COURSE		HRS
CS 241	Object Oriented Using C++	3	CS 246	Data & File Structures	3
CS 243	Computer Organization	3	CS 248	Theory of Computation	3
MATH 242	Calculus & Analytic Geometry. II	4	CS 251	Internetworking & Routing Basics	3
PHYS 213	College Physics Lab I	1	MATH 250	Linear Algebra	3
PHYS 237	College Physics I	3	PHYS 214	College Physics Lab II	1
CS 250	Computer Networks Fundamentals	3	PHYS 238	College Physics II	3
	·	17			16
_				SECOND YEAR TOTAL CRED	
		THIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	_
COURSE		HRS	COURSE		HRS
CS 342	Programming Languages and Design	3	CS 343	Microprocessors Design	3
CS 346	Database Management Systems	3	CS 351	Wide Area Networks Technologies	3
CS 350	Local Area Networks Fundamentals	3	POLS 236	American Political Systems II	3
POLS 235	American Political Systems I	3	HIST 232	Social & Political History of the	3
HIST 231	Social & Political History	3	1	United States since 1877	
	of the United States to 1877		ENG 2xx	Any 200 Level ENG may be selected	3
		15			15
				THIRD YEAR TOTAL CREDI	TS: 30
	F	OURT	H YEAR	2	
	SEVENTH SEMESTER	_		EIGHTH SEMESTER	_
COURSE		HRS	COURSE		HRS
CS 415	Computer Ethics and Society	3	CS 444	Operating Systems	3
CS 450	Network Management and Security	3	CS 451	Introduction to Wireless and	
CS 400/500	Computer Science Elective	3		Mobile Networks	3
MATH 473	Probability and Statistics	3	CS 456	Software Engineering	3
ECON 231	Principles of Economics I	3	CS 499	Capstone Project	3
		15			12
				FOURTH YEAR TOTAL CRED	ITS: 27
				CURRICULUM TOTA	L: 121

Bachelor of Science Degree in Civil Engineering

			,	5 5	
	FI	RST	YEAR		
	FIRST SEMESTER			SECOND SEMESTER	
COURSE		HRS	COURSE		HRS
ENG 131	Freshman English I	3	ENG 132	Freshman English II	3
MATH 241	Calculus & Analytic Geometry I	4	MATH 242	Calculus & Analytic Geometry II	4
CHEM 131	General Chemistry I	3	MUSIC 239	Fine Arts in Daily Living	3
CHEM 111	General Chemistry I Lab	1	ENGR 131	Engineering Graphics	3
CIVE 141	Civil Engineering Materials	3	CIVE 223	Hydrology and Water Resources	3
CIVE 141L	Civil Engineering Materials Lab	1			
CIVE 110	Intro to Civil Engineering	1	1		
		16			16
				FIRST YEAR TOTAL CREDIT	S: 32
	SEC	CON	D YEAR		_
_	THIRD SEMESTER			FOURTH SEMESTER	_
COURSE	THIRD SEPTESTER	HRS	COURSE	TOOK IN SEMESTER	HRS
ENG 2xx	Any 200 Level English	3	MATH 251	Differential Equations	3
MATH 243	Calculus & Analytic Geometry III	4	MATH 345	Applied Math and Statistics	3
CIVE 231	Plane Surveying	3	CIVE 224	Geotechnical Engineering	3
CIVE 232	Statics	3	CIVE 224L	Geotechnical Engineering Lab	1
PHYS 251	University Physics I	3	CIVE 233	Dynamics	3
PHYS 217	University Physics I Lab	1	PHYS 252	University Physics II	3
		-	PHYS 218	University Physics II Lab	1
		17	11115 210	om conjunios nead	17
		- "		SECOND YEAR TOTAL CREDIT	S: 34
	TH	HDD	YEAR		
	FIFTH SEMESTER		ILAK	SIXTH SEMESTER	_
COURSE	111 111 021 120 1210	HRS	COURSE		HRS
CIVE 301	Environmental Engineering	3	CIVE 333	Hydraulics Engineering	3
CIVE 301L	Environmental Engineering Lab	1	CIVE 338	Structural Analysis	3
CIVE 332	Applied Fluid Mechanics	3	CIVE 434	Water & Wastewater Engineering	3
CIVE 334	Transportation Engineering	3	ENGR 310	Intro to Project Management	1
CIVE 336	Strength of Materials	3	HIST 231	Social & Political History of U.S. to 1877	3
POLS 235	American Political System I	3	POLS 236	American Political System II	3
FOL3 233	American Folitical System 1				
		16			16
				THIRD YEAR TOTAL CREDIT	S: 32
		URT	H YEAR		
anuman.	SEVENTH SEMESTER		******	EIGHTH SEMESTER	un.
COURSE	D: (16 1 D :	HRS	COURSE	F D 1' #468/F 100	HRS
CIVE 339	Reinforced Concrete Design	3	CIVE 430	Engr Practicum or **CIVE 400	6
CIVE 340	Structural Steel Design	3	***Technical	Elective 3xx or 4xx	3
ECON 231	Principles of Economics I	3	-		
HIST 232	Social & Political History of U.S. since 1877		-		
SC 135	Business and Prof. Communication	3	-		
****Technical	Elective 3xx or 4xx	3			
		18			9
				FOURTH YEAR TOTAL CREDIT	
				CURRICULUM TOTAL	: 125

Bachelor of Science in Civil Engineering Technology

					00	
	F	IRST	YEAR			
	FIRST SEMESTER			SECONE	SEMESTER	
COURSE		HRS	COURSE			HRS
CHEM 111	General Chemistry Lab	1	SC 135		rofessional Communication	
CHEM 131	General Chemistry I	3	CIVT 224		Engineering	3
ENG 131	Freshman English I	3	ENG 132	Freshman En	-	3
ENGR 131	Engineering Graphics	3	MATH 134		r MATH 136 Precal.	3
MATH 133	College Algebra	3	PHYS 237	College Phys		3
CIVT 141	Civil Engineering Materials	3	PHYS 215	College Phys	ics I Lab	1
		16				16
				FIRST Y	EAR TOTAL CREDIT	S: 32
	SE	CON	D YEAR			
	THIRD SEMESTER			FOURTH	SEMESTER	
COURSE		HRS	COURSE			HRS
ENG 2xx	Any 200 Level English	3	CIVT 223		nd Water Resources	3
MATH 241	Calculus & Analytic Geometry I	4	CIVT 233	Dynamics		3
PHYS 238	College Physics II	3	SOC 157		to Sociology	3
PHYS 216	College Physics II Lab	1	MUSIC 239	Intro to Musi	c or Drawing and Comp	3
CIVT 231	Plane Surveying	3	or ART 131			
CIVT 232	Statics	3	MATH 242	Calculus & Ar	nalytic Geometry II	4
		17				16
				SECOND Y	EAR TOTAL CREDIT	rs: 33
	т	HIRD	YEAR			
	FIFTH SEMESTER			SIXTH	SEMESTER	
COURSE		HRS	COURSE			HRS
HIST 231	Social & Political History of U.S. to 1877	3	HIST 232		ical History of US. Since 187	
CIVT 301	Environmental Engineering	3	CIVT 335		esign of Highway	3
CIVT 332	Applied Fluid Mechanics	3	CIVT 333	Hydraulics Er		3
CIVT 334	Transportation Engineering	3	CIVT 336	Structural An		
CIVT 338	Strength of Materials	3	CIVT 434	Water and W	astewater Engineering	3
		15				15
				THIRD YE	EAR TOTAL CREDIT	
	FC	URT	H YEAR			
	SEVENTH SEMESTER	_		EIGHTH	SEMESTER	_
COURSE		HRS	COURSE			HRS
DRAFT 336	Computer Aided Drafting	3	ITEC 331	Technical Wr	9	3
POLS 235	American Political System I	3	POLS 236	American Po	litical System II	3
CIVT 340	Structural Steel Design	3	CIVT 400		ivil Engineering Tech	3
CIVT 337	Reinforced Concrete Design	3	CIVT 435	Civil Engr. Co	nstruction Methods	3
ENGT 331	Engineering Economy	3		*Technical El	ective 3xx or 4xx	3
ENGR 310	Introduction to Project Management	1				
		16				15
				FOURTH Y	EAR TOTAL CREDIT	S: 27
					RICULUM TOTAL	

Bachelor of Science Degree in Electrical and Computer Engineering

(Electrical Engineering Concentration)

		IDST	YEAR		
_	FIRST SEMESTER	-1231	ILAR	SECOND SEMESTER	
COURSE	TIKOT SEMESTER	HRS	COURSE	SECOND SEMESTER	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 Comp	3	MATH 242	Calculus & Analytic Geometry II	4
OTTAIN IST		17			15
				FIRST YEAR TOTAL CREDITS	
	SI	ECON	D 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	ENG 2xx	Any 200 Level English	3
POLS 235	American Political System I	3	POLS 236	American Political System II	3
		18			17
				SECOND YEAR TOTAL CREDITS	
	-	HIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	
COURSE		HRS	COURSE		HRS
ECE 330	Engineering Mathematical Analysis	3	ECE 334	Signal and System	3
ECE 331	Electronic Circuits	3	ECE 335	Control Systems	3
ECE 311	Electronic Circuits Lab	1	ECE 315	Control System Lab	1
ECE 332	Microprocessor Architecture	3	ECE 338	Computer and Wireless Networks	3
ECE 312	Microprocessor Architecture Lab	1	ECE 339	Real-time Embedded System	3
HIST 231	Social & Political History of U.S. to 1877	3	ECE 319	Real-time Embedded System Lab	1
	,		HIST 232	Social & Political History of U.S. Since 1877	3
		14			17
				THIRD YEAR TOTAL CREDIT	S: 31
	F	DURT	H YEAR	!	
44115.45	SEVENTH SEMESTER			EIGHTH SEMESTER	
COURSE		HRS	COURSE		HRS
ECE 430	Applied Electromagnetics	3	ECE 433	Microwave Engineering	3
ECE 432	Communication Systems	3	ECE 437	Digital Signal Processing	3
ECE 412	Communication System Lab	1	ECE 438	Power System Analysis	3
*ECON 231	Principles of Economics I	3	ECE 441	Senior Project	4
	**Technical Elective	3	ECE-ECX	ECE Comprehensive Exam	0
ENGR 310	Introduction to Project Management	1			
		14			13
				FOURTH YEAR TOTAL CREDITS	S: 27
				CURRICULUM TOTAL:	125

Bachelor of Science Degree in Electrical and Computer Engineering

(Computer Engineering Concentration)

	F	IRST	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 1	4	CHEM 111	General Chemistry I Lab	1
MUSIC 239	Intro to Music or Drawing and Composi	tion 3	MATH 242	Calculus & Analytic Geometry II	4
or ART 131					
		17			15
				FIRST YEAR TOTAL CREDITS	: 32
	SE	CON	D 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
		HIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	
COURSE		HRS	COURSE	1. 1	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	Ī						
		14			13				
				FOURTH YEAR TOTAL CR	REDITS: 27				
				CURRICULUM TO	TAL: 125				

Bachelor of Science Degree in Electrical and Computer Engineering

		FIDST	YEAR		
	FIRST SEMESTER	FIKSI	TEAR	SECOND SEMESTER	
COURSE	FIRST SEMESTER	HRS	COURSE	SECOND SEMESTER	HRS
ENG 131	Freshman English I	3	ENG 132	Freshman English II	3
MATH 133	College Algebra		MATH 134	Plane Trig. or Math 136 Precal.	3
ELET 111	DC Circuit Lab	1	ELET 113	AC Circuits Lab	1
ELET 130	Intro to Stru. Prog. with C++	3		AC Circuits	3
ELET 131	DC Circuits	3	CHEM 111	General Chemistry Lab	1
DRFT 233	Intro to Computer Aided Design	3	CHEM 131	General Chemistry	3
DIGIT 233	indo to computer Alded Design	,	SC 135	Business and Prof. Communication	3
		16	3(1))	business and Prof. Communication	17
		10		FIRST YEAR TOTAL CRED	
		ECON	D VEAD	FIRST TEAR TOTAL CRED	113.33
	THIRD SEMESTER	ECON	D YEAR	FOURTH SEMESTER	
COURSE	THIRD SEMESTER	HRS	COURSE	FOURTH SEMESTER	HRS
ENG 2xx	Upper level English	3		Calculus & Anal. Geometry	4
MATH 241	Calculus & Geometry I	4	ELET 212	Electronics II Lab	1
ELET 114	Electronics I Lab	1		Electronics II	3
ELET 134	Electronics I	3	ENGT 331	Engineering Economy	3
ELET 215	Digital Systems Lab	1	SOC 157	Introduction to Sociology	3
ELET 235	Digital Systems	3	300 137	miroduction to sociology	,
LLLI 233	Digital systems	15			17
		15		SECOND YEAR TOTAL CRED	
		THIED	YEAR		_
_		THIRE	ILAR	SIXTH SEMESTER	
COURSE	FIFTH SEMESTER	HRS	COURSE	SIXTH SEMESTER	HRS
COURSE ELET 313		_	COURSE		HRS
	FIFTH SEMESTER	HRS	COURSE ELET 311 Com	SIXTH SEMESTER municating Systems Lab municating Systems	1
ELET 313	FIFTH SEMESTER Microprocessor Architecture Lab	HRS	COURSE ELET 311 Com	municating Systems Lab Imunicating Systems	
ELET 313 ELET 333	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech.	HRS 1	COURSE ELET 311 Com ELET 331 Com	municating Systems Lab Imunicating Systems	1
ELET 313 ELET 333 MATH 345	Microprocessor Architecture Lab Microprocessor Architecture	HRS 1 3 3	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col	municating Systems Lab Imunicating Systems nical Writing	1 3 3 1 3
ELET 313 ELET 333 MATH 345 PHYS 215	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab	HRS 1 3 3 1	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab	1 3 3 1 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I	HRS 1 3 3 1 1 3 3 3	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab lege Physics II nerica Pol System II	1 3 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics	HRS 1 3 3 1 1 3 3 3	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab lege Physics II	1 3 3 1 3 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I	HRS 1 3 3 1 3 3 7 3 3	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab lege Physics II nerica Pol System II	1 3 3 1 3 3 3 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187	HRS 1 3 3 3 1 3 3 77 3 14	COURSE ELET 311 COM ELET 331 COM ITEC 331 Tech PHYS 216 COI PHYS 238 CO POLS 236 AM HIST 232 SOCI	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab lege Physics II nerica Pol System II ial & Political History of U.S. since 1877	1 3 3 1 3 3 3 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187	HRS 1 3 3 3 1 3 3 77 3 14	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab lege Physics II nerica Pol System II ial & Political History of U.S. since 1877	1 3 3 1 3 3 3 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187	HRS 1 3 3 3 1 3 3 77 3 14	COURSE ELET 311 COM ELET 331 COM ITEC 331 Tech PHYS 216 COI PHYS 238 CO POLS 236 AM HIST 232 SOCI	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab llege Physics II lerica Pol System II lal & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED	1 3 3 1 3 3 3 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187	HRS 1 3 3 1 3 3 7 3 14	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Co POLS 236 Am HIST 232 Soci	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab llege Physics II lerica Pol System II lal & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED	1 3 3 1 3 3 3 3 16
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187	HRS 1 3 3 1 3 3 7 3 14	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 236 Am HIST 232 Soci	municating Systems Lab imunicating Systems nical Writing lege Physics II Lab llege Physics II nerica Pol System II ial & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED	1 3 3 1 3 3 3 16 ITS: 30
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231 COURSE ELET 312	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187	HRS 1 3 3 3 7 3 14 HRS 1	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 236 Am HIST 232 Soci	municating Systems Lab imunicating Systems nical Writing lege Physics II Lab llege Physics II nerica Pol System II ial & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED EIGHTH SEMESTER Computer Control Systems Lab Computer Control Systems Microprocessor Interfacing Lab	1 3 3 1 3 3 3 16 HRS: 30
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231 COURSE ELET 312 ELET 332	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187	HRS 1 3 3 3 7 3 14 HRS 1 3	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am HIST 232 Soci	municating Systems Lab imunicating Systems nical Writing lege Physics II Lab llege Physics II nerica Pol System II al & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED EIGHTH SEMESTER Computer Control Systems Lab Computer Control Systems	1 3 3 1 3 3 16 HRS 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 3 1 3 3 3 1 3 3 3 3 3 1 3
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231 COURSE ELET 312 ELET 332 ELET 411	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187 SEVENTH SEMESTER Control Systems Lab Control Systems Micro Computer Networks Lab.	HRS 1 3 3 7 3 14 HRS 1 3 1	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am HIST 232 Soci COURSE ELET 410 ELET 430 ELET 431	municating Systems Lab imunicating Systems nical Writing lege Physics II Lab llege Physics II nerica Pol System II ial & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED EIGHTH SEMESTER Computer Control Systems Lab Computer Control Systems Microprocessor Interfacing Lab	1 3 3 1 3 3 3 16 175: 30
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231 COURSE ELET 312 ELET 332 ELET 411 ELET 434	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187 SEVENTH SEMESTER Control Systems Lab Control Systems Micro Computer Networks Lab. Micro Computer Networks	HRS 1 3 3 7 3 14 HRS 1 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 3 1 3	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am HIST 232 Soci OURSE ELET 410 ELET 430 ELET 431	municating Systems Lab imunicating Systems nical Writing lege Physics II Lab llege Physics II lerica Pol System II ial & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED EIGHTH SEMESTER Computer Control Systems Lab Computer Control Systems Microprocessor Interfacing Lab Microprocessor Interfacing	1 3 3 1 3 3 3 16 ITS: 30
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231 COURSE ELET 312 ELET 332 ELET 411 ELET 434 ENGR 310	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187 Seventh Semester Control Systems Lab Control Systems Micro Computer Networks Lab. Micro Computer Networks Intro to Project Management	HRS 1 3 3 7 3 14 HRS 1 3 1 3 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am HIST 232 Soci COURSE ELET 410 ELET 430 ELET 431 ELET 440	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab llege Physics II lerica Pol System II ial & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED EIGHTH SEMESTER Computer Control Systems Lab Computer Control Systems Microprocessor Interfacing Lab Microprocessor Interfacing Senior Electronics Project	1 3 3 1 1 3 1 1 3 1 1 3 4 4
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231 COURSE ELET 312 ELET 332 ELET 411 ELET 434 ENGR 310 MUSIC 239	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187 FSEVENTH SEMESTER Control Systems Micro Computer Networks Lab. Micro Computer Networks Intro to Project Management Fine Arts in Daily Living	HRS 1 3 3 14 HRS 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 3 3 1 3 3 3 3 3 1 3	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am HIST 232 Soci COURSE ELET 410 ELET 430 ELET 431 ELET 440 ELET 440 ELET 441	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab llege Physics II lerica Pol System II lail & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED EIGHTH SEMESTER Computer Control Systems Lab Computer Control Systems Microprocessor Interfacing Lab Microprocessor Interfacing Senior Electronics Project Electronics SR. Comp	1 3 3 1 3 3 16 175: 30
ELET 313 ELET 333 MATH 345 PHYS 215 PHYS 237 POLS 235 HIST 231 COURSE ELET 312 ELET 332 ELET 411 ELET 434 ENGR 310 MUSIC 239	Microprocessor Architecture Lab Microprocessor Architecture Applied Math & Stat. for Tech. College Physics I Lab College Physics America Pol System I Social & Political History of U.S. to 187 FSEVENTH SEMESTER Control Systems Micro Computer Networks Lab. Micro Computer Networks Intro to Project Management Fine Arts in Daily Living	HRS 1 3 3 14 HRS 1 3 1 3 1 3 1 3 1 3 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1	COURSE ELET 311 Com ELET 331 Com ITEC 331 Tech PHYS 216 Col PHYS 238 Col POLS 236 Am HIST 232 Soci COURSE ELET 410 ELET 430 ELET 431 ELET 440 ELET 440 ELET 441	municating Systems Lab Imunicating Systems nical Writing lege Physics II Lab llege Physics II lerica Pol System II lail & Political History of U.S. since 1877 THIRD YEAR TOTAL CRED EIGHTH SEMESTER Computer Control Systems Lab Computer Control Systems Microprocessor Interfacing Lab Microprocessor Interfacing Senior Electronics Project Electronics SR. Comp	1 3 3 3 16 ITS: 30 HRS 1 3 4 0 3 3 13

Bachelor of Science Degree in Computer Engineering Technology

		FIDST	YEAR		
	FIRST SEMESTER	FIRST	I	SECOND SEMESTER	_
COURSE	THOT SEMESTER	HRS	COURSE	SECOND SEMESTER	HRS
ELET 111	DC Circuit Lab	1	ELET 113	AC Circuits Lab	1
ELET 131	DC Circuits	3	ELET 133	AC Circuits	3
ELET 130	Intro to Stru. Prog. with C++	3	ENG 132	Freshman English II	3
DRFT 233	Intro to Computer Aided Design	3	MATH 134	Plane Trig. or MATH 136 Precal.	3
ENG 131	Freshman English I	3	CHEM 111	General Chemistry Lab	1
MATH 133	College Algebra	3	CHEM 131	General Chemistry	3
		16			14
				FIRST YEAR TOTAL CREDITS	: 30
	\$	ECON	D YEAR		
	THIRD SEMESTER	_		FOURTH SEMESTER	
COURSE		HRS	COURSE		HRS
ELET 114	Electronics I Lab	1	MATH 242	Calculus & Anal. Geometry	4
ELET 134	Electronics I	3	ENGT 331	Engineering Economy	3
ELET 215	Digital Systems Lab	1	MUSIC 239	Fine Arts in Daily Living	3
ELET 235	Digital Systems	3	SC 135	Business & Prof. Comm.	3
MATH 241	Calculus & Geometry I	4	POLS 236	America Pol System II	3
POLS 235	America Pol System I	3			
ENG 2xx	Any 200 Level English	3			
		18			16
				SECOND YEAR TOTAL CREDITS	: 35
		THIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	
COURSE		HRS	COURSE	A.L. I.C. B. Will C	HRS
ELET 313	Microprocessor Architecture Lab	1	ELET 422	Advanced Stru. Prog. With C++	3
ELET 333	Microprocessor Architecture	3	ITEC 331	Technical Writing	3
CMET 331 MATH 345	MicroComputer Operating System	3	PHYS 238		- 5
Ι ΜΔΙΗ 5/15			DIDGC 21C	College Physics II	
	Applied Math & Stat. for Tech.	3	PHYS 216	Phys for Eng. II 1	1
PHYS 237	College Physics I	3	HIST 231	Phys for Eng. II 1 Social & Political History of U.S. since 1877	3
PHYS 237 PHYS 215	College Physics I Physics for Eng. Lab I	3		Phys for Eng. II 1	1
PHYS 237	College Physics I	3 1 77 3	HIST 231	Phys for Eng. II 1 Social & Political History of U.S. since 1877	1 3 1
PHYS 237 PHYS 215	College Physics I Physics for Eng. Lab I	3	HIST 231	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management	1 3 1
PHYS 237 PHYS 215	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18	3 1 77 3	HIST 231 ENGR 310	Phys for Eng. II 1 Social & Political History of U.S. since 1877	1 3 1
PHYS 237 PHYS 215	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18	3 1 77 3	HIST 231	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS	1 3 1
PHYS 237 PHYS 215 HIST 231	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18	3 1 77 3 17	HIST 231 ENGR 310	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management	1 3 1 14 5: 31
PHYS 237 PHYS 215 HIST 231	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18.	3 1 77 3 17 FOURT	HIST 231 ENGR 310 H YEAR OURSE	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS EIGHTH SEMESTER	1 3 1 14 5: 31
PHYS 237 PHYS 215 HIST 231 OURSE ELET 411	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18. SEVENTH SEMESTER Micro Computer Networks Lab.	3 1 77 3 17 HRS	HIST 231 ENGR 310 H YEAR OURSE (MET 415	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL GREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1	1 3 1 14 5: 31
PHYS 237 PHYS 215 HIST 231 OURSE ELET 411 ELET 434	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks	3 177 3 17 17 HRS 1 3	H YEAR OURSE CMET 415 CMET 435	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL GREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks	1 3 1 14 5: 31 HRS
PHYS 237 PHYS 215 HIST 231 COURSE ELET 411 ELET 434 CMET 412	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks Senior Project I	3 1 77 3 17 HRS 1 3	H YEAR OURSE CMET 415 CMET 435 CMET 417	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL GREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks Data Commun. Methods Lab	1 3 1 14 5: 31 HRS 1 3 1
PHYS 237 PHYS 215 HIST 231 COURSE ELET 411 ELET 434 CMET 412 CMET 416	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks Senior Project I Applied Microprocessor Soft. Lab	3 1 177 3 17 18 HRS 1 3 1	HIST 231 ENGR 310 HIYEAR OURSE CMET 415 CMET 435 CMET 437	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks Data Commun. Methods Lab Data Communication Methods	1 3 1 14 5: 31 HRS 1 3 1 3
PHYS 237 PHYS 215 HIST 231 COURSE ELET 411 ELET 434 CMET 412 CMET 416 CMET 436	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks Senior Project I Applied Microprocessor Soft. Lab Applied Microprocessor Soft	3 1 177 3 17 17 HRS 1 3 1 1 1	HIST 231 ENGR 310 HIYEAR OURSE CMET 415 CMET 435 CMET 437 CMET 432	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks Data Commun. Methods Lab Data Communication Methods Senior Project II	1 3 1 14 5: 31 HRS 1 3 3 3
PHYS 237 PHYS 215 HIST 231 COURSE ELET 411 ELET 434 CMET 412 CMET 416	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks Senior Project I Applied Microprocessor Soft. Lab	3 1 177 3 17 18 HRS 1 3 1	HIST 231 ENGR 310 H YEAR OURSE CMET 415 CMET 435 CMET 437 CMET 432 CMET 438	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks Data Commun. Methods Lab Data Communication Methods Senior Project II Artificial Intelligence	1 3 1 14 14 18 1 3 1 3 3 3 3
PHYS 237 PHYS 215 HIST 231 COURSE ELET 411 ELET 434 CMET 412 CMET 416 CMET 436	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks Senior Project I Applied Microprocessor Soft. Lab Applied Microprocessor Soft	3 1 177 3 17 17 HRS 1 3 1 1 1	HIST 231 ENGR 310 H YEAR COURSE CMET 415 CMET 435 CMET 437 CMET 432 CMET 438 CMET 441	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks Data Commun. Methods Lab Data Communication Methods Senior Project II Artificial Intelligence Computer Eng. Tech. Comp. Exam	1 3 1 14 14 153: 31 1 3 3 3 0
PHYS 237 PHYS 215 HIST 231 COURSE ELET 411 ELET 434 CMET 412 CMET 416 CMET 436	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks Senior Project I Applied Microprocessor Soft. Lab Applied Microprocessor Soft	3 1 1 77 3 17 HRS 1 3 1 1 3 3 3 3 3	HIST 231 ENGR 310 H YEAR OURSE CMET 415 CMET 435 CMET 437 CMET 432 CMET 438	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks Data Commun. Methods Lab Data Communication Methods Senior Project II Artificial Intelligence	1 14 14 15: 31 1 3 3 3 3 3 0 3 3
PHYS 237 PHYS 215 HIST 231 COURSE ELET 411 ELET 434 CMET 412 CMET 416 CMET 436	College Physics I Physics for Eng. Lab I Social & Political History of U.S. to 18 SEVENTH SEMESTER Micro Computer Networks Lab. Micro Computer Networks Senior Project I Applied Microprocessor Soft. Lab Applied Microprocessor Soft	3 1 177 3 17 17 HRS 1 3 1 1 1	HIST 231 ENGR 310 H YEAR COURSE CMET 415 CMET 435 CMET 437 CMET 432 CMET 438 CMET 441	Phys for Eng. II 1 Social & Political History of U.S. since 1877 Intro to Project Management THIRD YEAR TOTAL CREDITS EIGHTH SEMESTER Adv. MicroCom. Networks Lab 1 Advanced MicroCom. Networks Data Commun. Methods Lab Data Communication Methods Senior Project II Artificial Intelligence Computer Eng. Tech. Comp. Exam	1 3 1 14 14 5: 31 1 3 1 3 3 0 3

Bachelor of Science Degree in Industrial Technology Construction Technology Concentration

		FIRET	YEAR		
	FIRST SEMESTER	FIRST	TEAK	SECOND SEMESTER	_
COURSE	FIRST SEMESTER	HRS	COURSE	SECOND SEMESTER	HRS
ART 131	Drawing and Composition I	3	CONS 141	Materials and Methods	2
CONS 131	Intro to Const Develop	3	CONS 141L	Materials and Methods Lab	1
ENG 131	Freshman English I	3	ENG 132	Freshman English II	3
DRFT 131	Fundamentals of Drafting	1	ELET 131	DC Circuits Lecture	3
DRFT 131L	Fundamentals of Drafting Lab	2	CHEM 131	Gen. Chem. I or BIOL 143 Survey of Life Scien	
MATH 133	College Algebra	3	MATH 138	Math for Business & Econ Analysis II	3
CS 116	Intro to Computer Science I	3	ITEC 111	Orientation	1
C2 110	indo to computer science i		II LC III	Orientation	
		18			16
				FIRST YEAR TOTAL CREDITS:	: 34
		SECON	D YEAR		
COURCE	THIRD SEMESTER	unc	COLUDER	FOURTH SEMESTER	une
COURSE	Communication I	HRS	COURSE	Community Technology	HRS
CIVT 231	Surveying I	3	CONS 334	Concrete Technology	2
CONS 242	Framing Principles	2	CONS 334L	Concrete Technology Lab	1
CONS 242L	Framing Principles Lab		DRFT 232	Architectural Design	2
DRFT 133L	Architectural Drafting Lab	1	DRFT 232L	Architectural Design Lab	1
DRFT 133	Architectural Drafting	2	PHYS 237	College Physics I Lecture	3
ENG 2XX	Any 200 Level English	3	HIST 232	Social & Political History of the U.S. since 18	
HIST 231	Social & Political History of the U.S		POLS 236	American Political Systems II	3
POLS 235	American Political Systems II	3			
		18			15
				SECOND YEAR TOTAL CREDITS:	: 33
		THIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	
COURSE		HRS	COURSE		HRS
ECON 231	Principles of Economics	HRS 3	COURSE ACCT 231	Principles of Accounting	3
ECON 231 CONS 333	Principles of Economics Quantity Surveying	HRS 3	COURSE ACCT 231 CONS 341	Principles of Accounting Intro to Mechanical, Electrical, Plumbing,	
ECON 231 CONS 333 CONS 333L	Principles of Economics Quantity Surveying Quantity Surveying Lab	HRS 3 2 1	COURSE ACCT 231 CONS 341 (MEPFI)	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems	2
ECON 231 CONS 333 CONS 333L CONS 344	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I	HRS 3 2 1 2	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing,	2
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab	HRS 3 2 1 2 1 2 1	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI)	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La	3 2 1 ab
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing	HRS 3 2 1 2 1 3	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating	3 2 1 ab 2
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 333	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management	HRS 3 2 1 2 1 3 3 3	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433L	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab	3 2 1 ab 2
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing	HRS 3 2 1 2 1 3	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433L MFG 333	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials	3 2 1 ab 2 1
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 333	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management	HRS 3 2 1 2 1 3 3 3	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433 MFG 333	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials Strength of Materials Lab	3 2 1 ab 2 1 2
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 333	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management	HRS 3 2 1 2 1 3 3 3 3 3 3	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433L MFG 333	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials	3 2 1 ab 2 1 2 1 3
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 333	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management	HRS 3 2 1 2 1 3 3 3	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433 MFG 333	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials Strength of Materials Lab Business & Prof Comm or Public Address	3 2 1 ab 2 1 2 1 3
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 333	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management	HRS 3 2 1 2 1 3 3 3 3 18	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433 CONS 433 MFG 333 MFG 333L SC 135 or 136	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials Strength of Materials Lab	3 2 1 ab 2 1 2 1 3
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 333	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management Industrial Safety	HRS 3 2 1 2 1 3 3 3 3 18	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433 MFG 333	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials Strength of Materials Lab Business & Prof Comm or Public Address THIRD YEAR TOTAL CREDITS	3 2 1 ab 2 1 2 1 3
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 439	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management	HRS	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433L MFG 333 MFG 333L SC 135 or 136	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials Strength of Materials Lab Business & Prof Comm or Public Address	3 2 1 ab 2 1 2 1 3 15 5: 33
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 439	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management Industrial Safety	HRS 3 2 1 2 1 3 3 3 3 HRS	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433L MFG 333 MFG 333L SC 135 or 136	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials Strength of Materials Lab Business & Prof Comm or Public Address THIRD YEAR TOTAL GREDITS EIGHTH SEMESTER	3 2 1 ab 2 1 2 1 3 15 5: 33
ECON 231 CONS 333 CONS 333L CONS 344 CONS 344L ITEC 331 ITEC 439	Principles of Economics Quantity Surveying Quantity Surveying Lab Construction Management I Construction Management I Lab Technical Writing Supervision and Management Industrial Safety SEVENTH SEMESTER Construction Management II	HRS	COURSE ACCT 231 CONS 341 (MEPFI) CONS 341L (MEPFI) CONS 433 CONS 433L MFG 333 MFG 333L SC 135 or 136 COURSE CONS 437	Principles of Accounting Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems Intro to Mechanical, Electrical, Plumbing, Fire & Information Distribution Systems La Estimating Estimating Lab Strength of Materials Strength of Materials Lab Business & Prof Comm or Public Address THIRD YEAR TOTAL GREDITS EIGHTH SEMESTER Construction Problems	3 2 1 ab 2 1 2 1 3 15 3: 33 HRS 3
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Bachelor of Science Degree in Industrial Technology Design Technology Concentration

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						10
CURRICULUM TOTAL: 120						
					CURRICULUM TOTAL:	120

Bachelor of Science Degree in Mathematics-General

	FI	RST	YEAR		
	FIRST SEMESTER			SECOND SEMESTER	
COURSE		HRS	COURSE		HRS
ENG 131	Freshman English I	3	ENG 132	English II	3
MATH 136	Precalculus Mathematics	3	MATH 241	Calculus & Analytic Geometry I	4
CHEM 131	General Chemistry & Lab I	3	CHEM 132	General Chemistry & Lab II	3
or BIOL 143	Survey of Life Science		or GEOL 141	Introduction to Earth	
HIST 281	Introduction to African American History	3		Social & Behavioral Sciences Area	3
SC 135 or SC 136	Business & Professional Communication		HED 233	History and Principles of Health	2
	or Public Address				
	Creative Arts	3			
		15			15
				FIRST YEAR TOTAL CREDIT	TS: 30
	SE	CON	D YEAR		
	THIRD SEMESTER			FOURTH SEMESTER	
COURSE		HRS	COURSE		HRS
POLS 235	American Political Systems I	3	POLS 236	American Political Systems II	3
HIST 231	Social & Political History of the	3	HIST 232	Social & Political History of the	3
	United States to 1877			United States since 1877	
ENG 2XX	Any 200 Level ENGLISH may be selected	3		Course in Minor/Second Major Field	3
MATH 242	Calculus & Analytic Geometry II	4	MATH 243	Calculus & Anlaytic Geometry III	4
CS 116	Computer Science I	3	CS 117	Computer Science II	3
		16			16
				SECOND YEAR TOTAL CREDI	TS: 32
	TI	IIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	
COURSE		HRS	COURSE		HRS
MATH 250	Linear Algebra	3	MATH 251	Differential Equations	3
MATH 331	Logic, Sets & Functions	3	MATH 336	Foundations of Algebra	3
	Foreign Languages or CS Elective	3		Foreign Languages or CS Elective	3
PHYS 217	University Physics I Lab	1	PHYS 218	University Physics II Lab	1
PHYS 251	University Physics I	3	PHYS 252	University Physics I Labl	3
	Course in Minor/Second Major Field	3		Course in Minor/Second Major Field	3
		16			16
				THIRD YEAR TOTAL CREDIT	TS: 30
	FO	URT	H YEAR		
	SEVENTH SEMESTER			EIGHTH SEMESTER	
COURSE		HRS	COURSE		HRS
MATH 473	Probability and Statistics I	3	MATH 439	Advanced Calculus I	3
MATH Elective	(6hrs. upper division course)	6	MATH Elective	(3hrs. upper division course)	3
	Course in Minor/Second Major Field	3		Course in Minor/Second Major Field	3
	Course in Minor/Second Major Field	3		Course in Minor/Second Major Field	3
		15			12
			F	OURTH YEAR TOTAL CREDI	
				CURRICULUM TOTA	L: 121

Maritime Transportation Management and Security

	(WI	ΙH	MINOR)		
	FIR	ST	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	ļ	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
	SEC	O N	D 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	3	HIST 231	Social and Political History of the	3
	U.S. to 1877			U.S. to 1877	
	MINOR	3		MINOR	3
MTMS 202	Maritime Law	3	GEOG 132	World Regional Geography	3
CS 116	Intro to Computers and Their Applications	3		MINOR	3
			MUSI 239	Fine Arts and Daily Living	3
		15			18
			5	ECOND YEAR TOTAL CREDITS	: 33
	THI	RC	YEAR		
_	FIFTH SEMESTER			SIXTH SEMESTER	_
COURSE		HRS	COURSE	ODATI OZNIZOTZK	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	ron and ronn open namegement	3
MTMS 321	Inter. Business and Ocean Shipping	3	- Title Elective	MINOR	3
		15			15
		17		THIRD YEAR TOTAL CREDITS	
_	FOU	DТ	H YEAR		
	SEVENTH SEMESTER	K	n Year	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 Busine	
MGMT 402	International Management	3		MINOR	3
	MINOR	3	ITEC 412	Senior Seminar	1
	MINOR	3	MTMS 495	Practicum	3
	THISK	15	111113 433	- I I I I I I I I I I I I I I I I I I I	13
		10		OURTH YEAR TOTAL CREDITS	
				OURTH YEAR TOTAL CREDITS	. 28

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CURRICULUM TOTAL: 121

Maritime Transportation Management and Security

	marama ir anoportat	TOIL	managam	מוני שום טטטעדונץ	
	FIE	₹ST	YEAR		
	FIRST SEMESTER			SECOND SEMESTER	
COURSE		HRS	COURSE		HRS
ENG 131	Freshman English I	3		Freshman English II	3
MATH 133	College Algebra		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 Transportati	
		15			15
				FIRST YEAR TOTAL CREDI	TS: 30
		ON	DYEAR		
COLIDE	THIRD SEMESTER	HRS	COLIDER	FOURTH SEMESTER	unc
COURSE			COURSE	Model Literature I	HRS
MATH 231	Elementary Statistics I	3	ENG 230	World Literature I	3
HIST 231	Social and Political History of the	3	HIST 232	Social and Political History of the	3
CDANISTS	U.S. to 1877		CD111 573	U.S. since 1877	
SPAN 131	Elementary Spanish	3	SPAN 132	Elementary Spanish II	3
MTMS 202	Maritime Law	3	GEOG 132	World Regional Geography	3
CS 116	Intro to Computers and Their Applications	1 3		Intro to Computers and Their Applicat	
			MUSI 239	Fine Arts and Daily Living	3
		15			18
				SECOND YEAR TOTAL CRED	TS: 33
		IRD	YEAR		
COURSE	FIFTH SEMESTER	HRS	COURSE	SIXTH SEMESTER	HRS
	Annanian Maritima History			Maritima Francisco Marret	
MTMS 303	American Maritime History	3	MTMS 361	Maritime Environ. Mgmt.	3
MTMS 341	Maritime Security Management	3		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	MGMT 301	Personnel and Manpower Dev	3
		15			15
				THIRD YEAR TOTAL CRED	ITS: 30
		RT	H YEAR		
COURSE	SEVENTH SEMESTER	HRS	COURSE	EIGHTH SEMESTER	HRS
MTMS 424	Contan. and Mo. Cargo Stw.	3		Maritime Environmental Law	3
MIS 304	Information Technology	_	MTMS 481	Seminar in International Maritime Bu	_
MGMT 402	International Management	3		Seminar in international riditality bu	3
MTMS Elective	international rianagement	3		Senior Seminar	1
MTMS Elective		3	MTMS 495	Practicum	3
riins Elective		15	111113 490	riduitulli	13
		13			13

Bachelor of Science Degree in Physics

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

	F	IRST	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
	SE	CON	D 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
	TI	HIRD	YEAR		
	FIFTH SEMESTER			SIXTH SEMESTER	
COURSE		HRS			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 Ele	ectives (Requiring Departmental Approval)	3	PHYS 360	Advanced Undergraduate Lab	3
	Free Elective	4			
		16			12
				THIRD YEAR TOTAL CREDITS	: 28
	FO	URT	HYEAR		
	SEVENTH SEMESTER			EIGHTH SEMESTER	
Prescribed Ele	ective	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	
				CURRICULUM TOTAL:	120

Code of Conduct

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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 HPF:

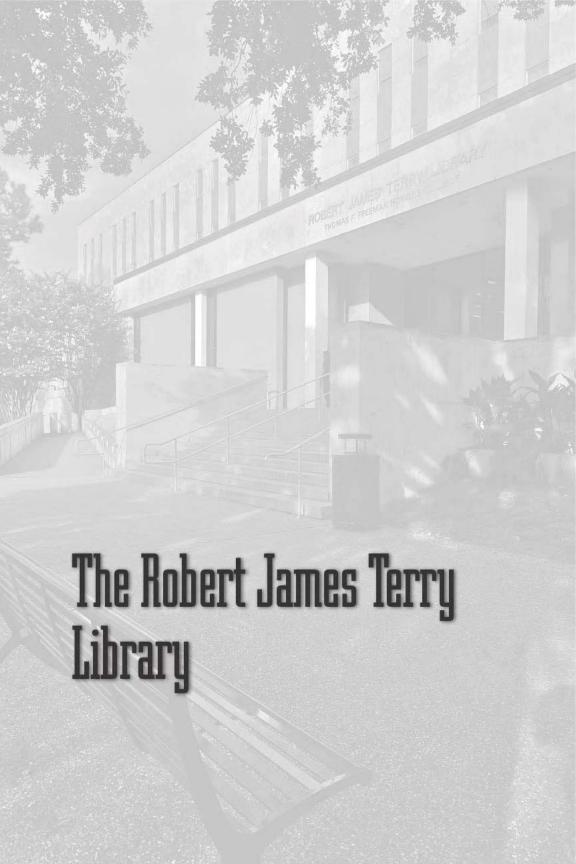
Business casual

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 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**.



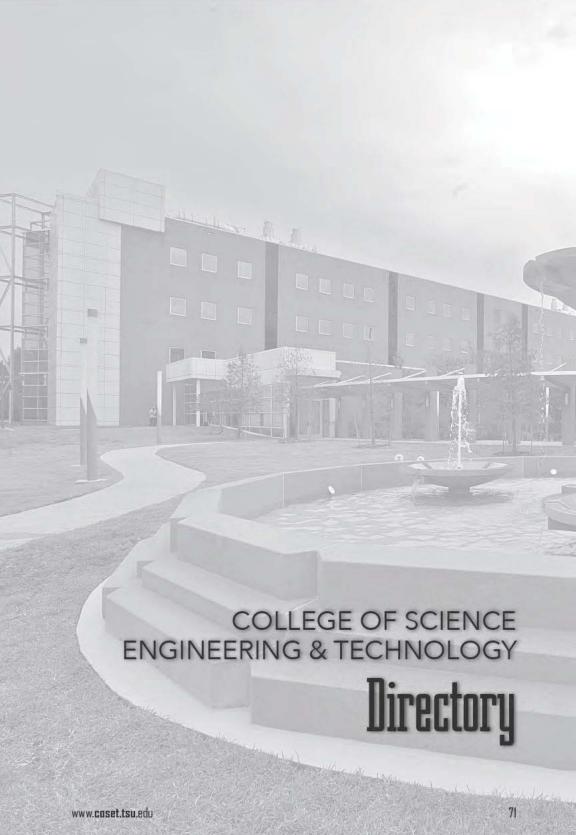
The academic advising process is very important to any degreeseeking student. The process serves the student in many ways necessary in fostering a successful college career. Academic advising is a multifaceted activity advising should assist students to realize the maximum educational benefits available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



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

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Ms. Gertrude Florent Administrative Assistant	713-313-1846

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Ms. Ursurla Williams Program Coordinator williamsua@tsu.edu	.713-313-4394
Ms. Rita Didikiri	.713-313-1841

RESEARCH CENTERS



CENTER FOR TRANSPORTATION TRAINING AND RESEARCH (CTTR)

Leonard H.O. Spearman Technology Bldg., Suite 401

Fax: 713-313-1923

ENVIRONMENTAL RESEARCH AND TECHNOLOGY TRANSFER CENTER

TSU Science Center, Room 300

Fax: 713-313-4243

ENGINEERING RESOURCE CENTER ~ DEPARTMENT OF ENGINEERING

Leonard H.O. Spearman Technology Bldg., Suite 103

Fax: 713-313-4486

CENTER FOR RESEARCH ON COMPLEX NETWORKS (CRCN)

Leonard H.O. Spearman Technology Bldg., Room 316B

Fax: 713-313-7583

Professor and Director

liww@tsu.edu

INNOVATIVE TRANSPORTATION RESEARCH CENTER

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Dr. Fengxiang Qiao713.313-1915

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	
Please note that the academic cale	ndar 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	
•	•
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
•	. 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.

AUGUST 2016

July				August					ī				
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## 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)	112 pounds		
Long			
1 hundredweight (cwt)	100 pounds		
Short			
1ton (long)	2,240 pounds		
1 ton (short)	2,000 pounds		
AREA			
1 square foot (ft²)	144 square inches (in²)	1 square centimeter	100 square centimeter
		(cm)	(mm)
			10,000 square
1 square yard (yd²)	9 square feet	1 square meter (m²)	centimeters (cm)
1 acre	4,840 square yards (yd²)	1 hectare	10,000 square meters
1 square mile	640 acres	1 square kilometer	1,000,000 square meters (m²)
VOLUME			(111)
1 cubic foot	1,728 cubic inches	1 cubic centimeter (cc)	1 milliliter (ml)
1 cubic yard	27 cubic feet	1 liter (I)	1,000 milliliters
,		1 cubic meter (m³)	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 (di)	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 (hi)	10 decaliters
1 gallon (gal)	4 quarts	1 kiloliter (hi)	10 hectoliters
1 peck (pk)	2 gallons		
1 bushel (bu)	4 pecks		

## Geometric Formulas

#### Rectangle



Perimeter: P = 2l + 2w Area: A = Iw

#### Square



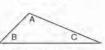
Perimeter: P = 4s Area: A = s'

#### Triangle



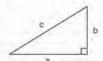
Perimeter: P

#### Sum of Angles Of Triangle



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

#### Right Triangle

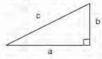


Perimeter: P = a + b + c

Area: 
$$A = \frac{1}{2}ab$$

One 90° (right) angle

#### Pythagorean Theorem (for right triangles)



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

#### Isosceles Triangle



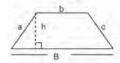
Triangle has two equal sides and two equal angles.

#### Equilateral Triangle



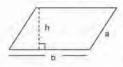
Triangle has three equal sides and three equal angles.

#### Trapezoid



Perimeter: P = a + b + c + B

#### Parallelogram



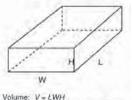
Perimeter: P = 2a + 2bArea: A = bh

#### Circle



Circumference:  $C = \pi d$ 

#### Rectangular Solid



Surface Area: S = 2LH + 2LW + 2WH

Sphere

#### Cube



Volume: V = s3

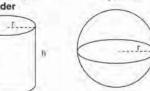
#### Cone



#### Right Circular



Volume:  $V = \pi r^2 h$ 



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

$$C = \frac{5}{9} (F - 32)$$

#### Other Formulas:

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

# Physics Equations

	Me	asurements	Principle of Moment	For a body in rotational
Base SI Units			Σ Anticlockwise Moment	
Kg		SI Unit for mass: Kilogram	= Σ Clockwise Moment	Sum of ACW Moment = sum of
m		SI Unit for length: metre		CW Moment
8		SI Unit for time; second		Non-William Codes
A		SI Unit for current: Ampere	i i	ressure
K		SI Unit for Temperature: Kelvin	Pressure	P = Pressure
mol		SI Unit for Amount of substance: molar	$\mathbf{p} = \frac{\mathbf{F}}{\mathbf{r}}$	F = Force over area, A
Number Prefix	-	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P=A	A = Area
n (10 ⁻⁹ )	- 6	nano	Pressure of liquid	P = Pressure
μ (10-6)		micro	column	ρ = density,
m (10 ⁻³ )		milli	P = hpg	h = height of liquid column
c (10 ² )		centi		g = gravitational field strength.
d (10 ⁻¹ )	1	deci	Factor (	AN ASSAULT TO SERVICE OF THE PARTY OF THE PA
K (103)		Kilo	Energy, w	ork and Power
M (10 ⁶ )		Mega	Work Done	W = work.done
The second second	7	Cinematics	W = Fd	F= force
			All St.	d= distance in direction of force
Average Speed		total distance travelled (area under	Power	Work done per unit time, t
$s = \Delta d / \Delta t$		d-time graph) = total displacement	P = W/t = Fv	
Average Velocity		total time taken	Kinetic Energy	E _k = Kinetic Energy
Average velocity $v = \Delta x/\Delta t$		change in velocity	$E_{\mathbf{k}} = \frac{1}{2} \mathbf{m} \mathbf{v}^2$	m = mass
Acceleration		ocity (slope of displacement-time graph)		v = velocity
$a = \Delta v/\Delta t$		eleration (slope of velocity-time graph)	Gravitational Potential	g = gravity =9.81 m/s
$\mathbf{v} = \mathbf{u} + \mathbf{at}$	4-24	initial velocity	Energy	h = height
$\mathbf{x} = \mathbf{u} + \mathbf{a}t$ $\mathbf{x} = \mathbf{u}t + \frac{1}{2}\mathbf{a}t^2$		final velocity	E ₀ = mgh Conservation of Energy	m = mass
$v^2 = u^2 + 2ax$		rime		E _t = Total Energy Before
y - u + zax	100	acceleration	$E_1 = E_2$	E ₂ = Total Energy After
	1000	displacement		Energy cannot be created or
v 1244		height		destroyed. It can only be transformed or converted into othe
$V_{free full} = \sqrt{2gh}$		gravitational constant = 9.81 m/s ²		forms.
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		Dynamics	Kinetic N	lodel of Matter
Newton's First Lay		A body continues to stay in its state	Ideal Gas Law	P = pressure of fixed mass of gas
$\sum F = 0$ at equilibrium	m	of rest or uniform motion in a straight line as long as there is no	PV ∞ T	V = volume occupies by fixed mas
		net force/moment acting on the		of gas
		body.	A DATE OF THE PARTY OF THE PART	T = Temperature of gas
Newton's Second I	any	The acceleration of an object is	$P_1V_1 = P_2V_2$	Subscript 1 = initial state
F= ma		directly proportional to the net force		Subscript 2 = final state
		acting on it and inversely	Thermal Pro	perties of Matter
		proportional to its mass.	Specific Heat Capacity	c = Specific heat capacity (Energy
Newton's Third La	W	For every force object A acts	E = m c \DT	required to raise the temperature of
		on object B, object B will exert an	Total Assessment	lkg of the object by 1 °C)
		equal and opposite		m = mass
				A70
		force on object A giving rise to		$\Delta T$ = change in temperature.
D. A. L. C.		force on object A giving rise to Reaction/Normal Forces	Latent Heat	L _{fusion} = latent heat of fusion (Energy
Resolving forces		force on object A giving rise to	For melting,	L _{fusion} = latent heat of fusion (Energy required to change 1kg of solid to
Fhorizontal = Fr cos 6		force on object A giving rise to Reaction/Normal Forces Fverieal Fr		L _{tusion} = latent heat of fusion (Energy required to change 1kg of solid to liquid at the constant temp)
$F_{\text{borizoptal}} = F_r \cos \Theta$ $F_{\text{vertical}} = F_r \sin \Theta$		force on object A giving rise to Reaction/Normal Forces  Fverified F F F F F F F F F F F F F F F F F F F	For melting, E = m L _{tusion}	L _{fusion} = latent heat of fusion (Energy required to change 1kg of solid to liquid at the constant temp) L _{vaporization} = latent heat of
$F_{\text{horizoptal}} = F_r \cos \Theta$ $F_{\text{vertical}} = F_r \sin \Theta$ Ma		force on object A giving rise to Reaction/Normal Forces  Fverifical Fr Fhorizontal  Neight, Density	For melting, $E = m L_{fluion}$ For boiling,	L _{tusion} = latent heat of fusion (Energy required to change 1kg of solid to liquid at the constant temp) L _{copesization} = latent heat of vaporization (Energy required to
$F_{\text{horizoptal}} = F_r \cos \Theta$ $F_{\text{vertical}} = F_r \sin \Theta$ Ma Weight		force on object A giving rise to Reaction/Normal Forces  Fverieal Frequency Frequency Fhorizontal  Weight, Density W = Weight	For melting, E = m L _{tusion}	L _{thnext} = latent heat of fusion (Energy required to change 1kg of solid to liquid at the constant temp)  L _{vaponization} = latent heat of vaponization (Energy required to change 1kg of liquid to gas at the
$F_{\text{herizoptal}} = F_r \cos \Theta$ $F_{\text{vertical}} = F_r \sin \Theta$ Ma Weight		force on object A giving rise to Reaction/Normal Forces  Fverieal  Fr Fr Fhorizontal  Weight, Density  w = Weight m = mass	For melting, $E = m L_{fluion}$ For boiling,	Lauscar = latent heat of fusion (Energerquired to change 1kg of solid to liquid at the constant temp)  Lapportation = latent heat of vaporization (Energy required to change 1kg of liquid to gas at the constant temp)
$F_{\text{bonitostal}} = F_r \cos \Theta$ $F_{\text{vertical}} = F_r \sin \Theta$ Weight $w = mg$		force on object A giving rise to Reaction/Normal Forces  Fverified F Fhorizontal  Weight, Density  w = Weight m = mass g = gravitational field strength	For melting, $\begin{split} E &= m \; L_{\rm fusion} \end{split}$ For boiling, $E &= m \; L_{\rm vaporiration} \end{split}$	L _{tascer} = latent heat of fusion (Energy required to change lkg of solid to liquid at the constant temp)  L _{taportization} = latent heat of vaporization (Energy required to change lkg of liquid to gas at the constant temp)  m = mass
$F_{bosicoptal} = F_r \cos \Theta$ $F_{vertical} = F_r \sin \Theta$ Weight $w = mg$ Density		force on object A giving rise to Reaction/Normal Forces  Fverisal Fr Fr Fr Fr Weight, Density W = Weight m = mass g = gravitational field strength p = density	For melting, $E = m \ L_{\text{Nulson}}$ For boiling, $E = m \ L_{\text{Nupodration}}$ General V	Letticar = latent heat of fusion (Energy required to change lkg of solid to liquid at the constant temp)  Letticarian = latent heat of vaporization (Energy required to change lkg of liquid to gas at the constant temp)  m = mass  Vave Properties
F _{benizostal} = F _r cos 6 F _{vertical} = F _r sin $\Theta$ Weight w = mg.  Density		force on object A giving rise to Reaction/Normal Forces  Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveribal Forces Fveri	For melting, $E = m \ L_{tankon}$ For boiling, $E = m \ L_{vapodration}$ General V Wave Velocity	Little = latent heat of fusion (Energy required to change lkg of solid to liquid at the constant temp) Laportation = latent heat of vaporization (Energy required to change lkg of liquid to gas at the constant temp) m = mass  Vave Properties v = velocity of a wave
$\begin{aligned} F_{\text{horizoptal}} &= & F_r \cos \Theta \\ F_{\text{vertical}} &= & F_r \sin \Theta \\ && & & & & & & & & & & & & & & & & $	ss, \	force on object A giving rise to  Reaction/Normal Forces  Fverified Frequency  Ferminal Frequency  Fermina	For melting, $E = m \ L_{\text{Nulson}}$ For boiling, $E = m \ L_{\text{Nupodration}}$ General V	Little Transmer = latent heat of fusion (Energy required to change lkg of solid to liquid at the constant temp)  Lisponization = latent heat of vaponization (Energy required to change lkg of liquid to gas at the constant temp)  m = mass  Vave Properties  v = velocity of a wave f = frequency
$\begin{aligned} F_{benizotal} &= & F_r \cos \theta \\ F_{vertical} &= & F_r \sin \theta \\ && & & \\ && & & \\ && & & \\ && & & \\ && & & \\ && & & \\ && & \\ && & & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && $	ss, \	Force on object A giving rise to Reaction/Normal Forces  Fverified  Fhorizontal  Weight, Density  w = Weight  m = mass  g = gravitational field strength  p = density  m = mass  V = volume  g effect of Force	For melting, $E = m \ L_{linion}$ For boiling, $E = m \ L_{expostration}$ General V Wave Velocity $v = f \lambda.$	Letter = latent heat of fusion (Energy required to change lkg of solid to liquid at the constant temp) Leaportain = latent heat of vaporization (Energy required to change lkg of liquid to gas at the constant temp) m = mass  Vave Properties v = velocity of a wave
$\begin{aligned} F_{\text{horizontal}} &= F_r \cos \theta \\ F_{\text{vertical}} &= F_r \sin \theta \end{aligned}$ $\begin{aligned} &\text{Ma} \\ &\text{Weight} \\ &\text{w} &= \text{mg} \end{aligned}$ $\begin{aligned} &\text{Density} \\ &\rho &= \frac{m}{V} \end{aligned}$ $\begin{aligned} &\text{Tur} \\ &\text{Moment of Force} \end{aligned}$	ss, \	Force on object A giving rise to Reaction/Normal Forces  Fverified Fhorizontal  Weight, Density  w = Weight m = mass g = gravitational field strength p = density m = mass V = volume geffect of Force M = Moment	For melting, $E = m L_{tunion}$ For boiling, $E = m L_{upontration}$ General V Wave Velocity $v = f \lambda$ Wave frequency	Letticer = latent heat of fusion (Energy required to change lkg of solid to liquid at the constant temp)  Leaportization = latent heat of vaporization (Energy required to change lkg of liquid to gas at the constant temp)  m = mass  /ave Properties  v = velocity of a wave  f = frequency  \( \lambda = wavelength \)
$\begin{aligned} F_{benizotal} &= & F_r \cos \theta \\ F_{vertical} &= & F_r \sin \theta \\ && & & \\ && & & \\ && & & \\ && & & \\ && & & \\ && & & \\ && & \\ && & & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && & \\ && $	ss, \	Force on object A giving rise to Reaction/Normal Forces  Fverified  Fhorizontal  Weight, Density  w = Weight  m = mass  g = gravitational field strength  p = density  m = mass  V = volume  g effect of Force	For melting, $E = m \ L_{linion}$ For boiling, $E = m \ L_{expostration}$ General V Wave Velocity $v = f \lambda.$	Little Transfer = latent heat of fusion (Energy required to change lkg of solid to liquid at the constant temp)  Liquid at the constant temp)  Liquid at the constant temp)  Liquid to Energy required to change lkg of liquid to gas at the constant temp)  m = mass  Vave Properties  v = velocity of a wave  f = frequency

VIIIA VIIIA	The Hollow Necon N	Argon Argon 38.348	Cypton 628	Xe 520	RAD Radon (222) BUO UNO UNOCTIUM (234)
	VIIA 110 F 1	C the think the	Br + 36	54 100 to 126.9	At statine statine 111
	16 vilA 2 9	Sulfur 22005	Se to the second	Te +6 +6 +6 +6 +6 +6 +6 +6 +6 +6 +6 +6 +6	Po slovium (209)
	15 AV National Research	P +5 16	AS 534	Sb 15 Tri	Smuth P 208.98
	14 NA	Si 44 15	Ge 4 33	Sn 42 51	Pb + 2   11   2   11   1   1   1   1   1   1
	13 IIIA Beron 108m	13 41 4 4 15 15 16 4 17 18 Administration 28,689 39,090 32,689 38,489 39,090	Ga 69.723	43 S0	The salitum 2004.38
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ments	SEMICONDUCTORS OTHER MONMETALS HALOGENS NOBLE GASES	<u> </u>	Cu Copper	Ag silver	Adu 500d 196.97
of Elec		10 VIIIB	Nickel Nickel 58.693	Pd **4 47	Platinum 195.08 10 10 10 10 10 10 10 10 10 10 10 10 10
	HYDROGEN  AUKALI METALS  AUKALINE-EARTH METALS  TRANSITION METALS  OTHER METALS	6 Allia	CO +2 28 Cobalt Ser 933	Rhodium	
Periodic Table of Elements	HYDROGEN ALKALI METALS ALKALINE-EART TRANSITION ME OTHER METALS	WIIIB	6 +2 2   Fe incompanies	Ruthenium 101.07	00 S +4 T
Peri	STATES	7 VIIB	Mnn +4 Manganese	13 +4 4 7 TC *7 Technetium (98)	Rhentum 186.21 + 4 1
	OXIDATION STATES  ATOMIC WEIGHT  ARTHICIAL DINKI	9 NIB	Cr +6 Cr +6 Chromium 51.996	42 +3 A	Tungsten 188.84 16
	Fe - OXIDATION STATES FOR - ATOMIC WEIGHT SASSAS - ATOMIC WEIGHT STATE OF MATTER GAS LIQUID ARTHRIGAL UNKNOWN	VB NB	23 +2 43 +3 Vanadium 58.942	41 +5 +5 Nobium 92.906	73 +5 Tantalum 180.95 105 +5 Db Dubnium (262)
	ATOMIC NUMBER SYMBOL NAME	4 N	22 Ti +3 +3 +4 Trianium 47.867	40 +3 Zr	72 +4 73 +5 74 +6 75 +6 105 +1 102 +1 102 +1 102 +1 103 +1 102 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1 103 +1
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<del></del> ≤	Hydrogen 1,008	Na Sodium 222.99	19 K Potassium 39,098	Rubidium St.468	CS 1 56 CS 1 56 CS 1 56 CS

THANIDES	57 +3 58 +3 5 La Ce +4 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Cerlum Cerlum 140.12	Praseodynium	Neodymium	Promethium	55 +3 Samarium 150.36	Europium 151.96	Gd cadolinium	65 +3 Tb	Dy Dysprosium 1625	67 +3 Holmism 164.93	68 +3 Erbium 167.26	Tml mullium messar	70 +3	Lutetium
CTINIDES	ACtinium	Th Thorium	Protactinium 231.04	92 +3 U +6 Uranium 238.03	93 +4 N D +6 Neptunium (237)	Putonium	95 t3 44 Ames Americium	Cm curium	BK +4 Berkelium	Californium	Ensteinium	Fermium (2577)	Mendelevium	NODellum (259)	103 Lr Lawrendum

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January	February	March	April	May	June
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
<b>31</b> 1 2	1 2 3 4 5 6	1 2 3 4 5	1 2	<b>1</b> 2 3 4 5 6 7	1 2 3 4
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<b>10</b> 11 12 13 14 15 16	<b>14</b> 15 16 17 18 19 20	<b>13</b> 14 15 16 17 18 19	<b>10</b> 11 12 13 14 15 16	<b>15</b> 16 17 18 19 20 21	<b>12</b> 13 14 15 16 17 18
<b>17</b> 18 19 20 21 22 23	<b>21</b> 22 23 24 25 26 27	<b>20</b> 21 22 23 24 25 26	<b>17</b> 18 19 20 21 22 23	<b>22</b> 23 24 25 26 27 28	<b>19</b> 20 21 22 23 24 25
<b>24</b> 25 26 27 28 29 30	<b>28</b> 29	<b>27</b> 28 29 30 31	<b>24</b> 25 26 27 28 29 30	<b>29</b> 30 31	<b>26</b> 27 28 29 30
July	August	September	October	November	December
SMTWTFS	SMTWTFS	SMTWTFS	S M T W T F S	S M T W T F S	S M T W T F S
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January	February	March	April M	lay	June
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<b>15</b> 16 17 18 19 20 2	1 <b>12</b> 13 14 15 16 17 18	<b>12</b> 13 14 15 16 17 18	9 10 11 12 13 14 15 14	4 15 16 17 18 19 20	<b>11</b> 12 13 14 15 16 17
<b>22</b> 23 24 25 26 27 2	8 <b>19</b> 20 21 22 23 24 25	<b>19</b> 20 21 22 23 24 25	16 17 18 19 20 21 22 21	1 22 23 24 25 26 27	<b>18</b> 19 20 21 22 23 24
<b>29</b> 30 31	<b>26</b> 27 28	<b>26</b> 27 28 29 30 31	<b>23</b> 24 25 26 27 28 29 <b>28</b>	8 29 30 31	<b>25</b> 26 27 28 29 30
July	August	September	October N	lovember	December
S M T W T F :	SMTWTFS	SMTWTFS	S M T W T F S S	M T W T F S	SMTWTFS
30 31	1 1 2 3 4 5	1 2	<b>1</b> 2 3 4 5 6 7	1 2 3 4	<b>31</b> 1 2
2 3 4 5 6 7	<b>6</b> 7 8 9 10 11 12	<b>3</b> 4 5 6 7 8 9	8 9 10 11 12 13 14 <b>5</b>	6 7 8 9 10 11	<b>3</b> 4 5 6 7 8 9
9 10 11 12 13 14 1	5 <b>13</b> 14 15 16 17 18 19	<b>10</b> 11 12 13 14 15 16	<b>15</b> 16 17 18 19 20 21 <b>12</b>	<b>2</b> 13 14 15 16 17 18	<b>10</b> 11 12 13 14 15 16
<b>16</b> 17 18 19 20 21 2	2 20 21 22 23 24 25 26	<b>17</b> 18 19 20 21 22 23	22 23 24 25 26 27 28 19	9 20 21 22 23 24 25	<b>17</b> 18 19 20 21 22 23
<b>23</b> 24 25 26 27 28 2	9 27 28 29 30 31	<b>24</b> 25 26 27 28 29 30	29 30 31 26	6 27 28 29 30	<b>24</b> 25 26 27 28 29 30

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