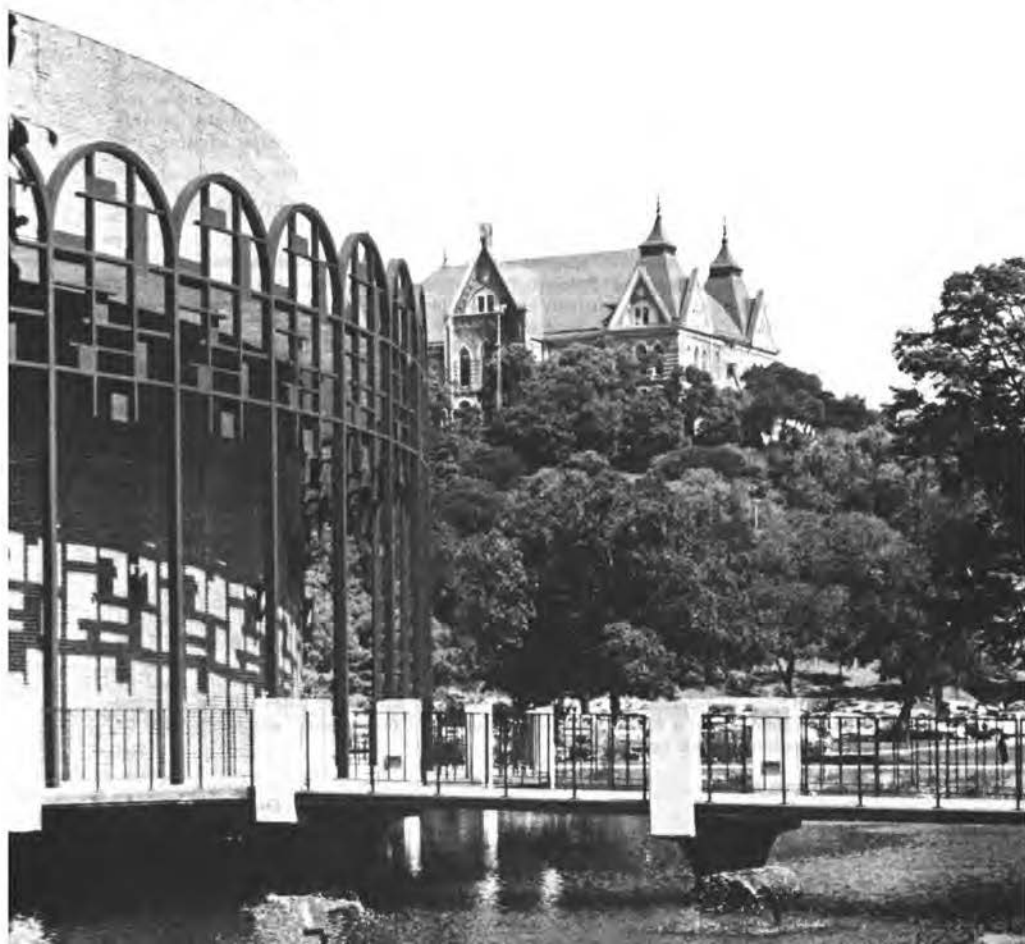


Addendum to Academic Programs 82-84 Southwest Texas State University San Marcos, Texas

This update of Southwest Texas State University's undergraduate catalog contains changes in pertinent information relating to degree requirements and course offerings at SWT.

Additional academic information is available from the Office of the Vice President for Academic Affairs, the Offices of the School Deans and the individual academic departments.

This update was prepared on the basis of the best information available at the time of printing. All information---including fees, course offerings, and admission and graduation requirements---is subject to change without notice or obligation.



- The School of Applied Arts redesignated to the School of Applied Arts and Technology.
- The School of Creative Arts redesignated to the School of Fine Arts and Communication.
- Transfer the Department of Technology from the School of Education to the School of Applied Arts and Technology.
- Transfer the Department of Journalism from the School of Applied Arts to the School of Fine Arts and Communication.
- Transfer Occupational Education from the Office of Public Service, Adult and Continuing Education (PSACE) to the School of Applied Arts and Technology.
- Transfer the Department of Psychology from the School of Education to the School of Liberal Arts.
- Transfer responsibilities for Continuing Education and coordination of off-campus instruction from Public Service, Adult and Continuing Education (PSACE) to the Office of the Vice President for Academic Affairs.
- Transfer the Criminal Justice Institute from Public Service, Adult and Continuing Education (PSACE) to the Department of Criminal Justice in the School of Applied Arts and Technology.
- Transfer Vocational-Teacher Education from the Office of Public Service, Adult and Continuing Education (PSACE) to the Department of Technology.
- Transfer all vocational-industrial educational courses (Education 3301, 3302, 3303, 3304, 3305, 3306, 3307, and 3308) from the Department of Education to the Department of Technology.
- The establishment of an Office of General Studies under the direction of a dean, who will be charged with the responsibility for coordinating institutional programs in general studies and for providing an academic home for the university's undecided majors. It will also provide more coherent direction of the academic foundations program, lower division advising, and teaching in basic skills.
- All undergraduate courses listed as Business Administration (BA), prefix will change to General Business (GB)

Page 8 - Add: Following statement of "Student Rights, Privileges, and Expectations," add the following statement: "Handicapped Students." Handicapped students, including hearing impaired students, may be eligible for auxiliary aids provided by the University. Students desiring such aids should submit a written application for auxiliary aids to Mr. Dayton Cole, Assistant to the Dean of Students, Room 4009, LBJ Student Center, phone 245-2370. To obtain permission to park in special parking zones set aside for the handicapped, a student should obtain a note of handicapped status and length of time needed from the Student Health Center or personal physician. The note should then be presented to the Permit and I.D. Office, Room 18, University Service Center, phone 245-2297. Some undergraduate handicapped students may be eligible for financial and/or other support services. For more information, contact Ms. Virginia Bosman, Texas Rehabilitation Commission, phone 353-8627. For assistance with study skills, contact the Student Learning Assistance Center (SLAC) located on the 5th floor of the J. C. Kellam Building, phone 245-2515.

ADMISSIONS

Page 11 - Delete: All paragraphs under "When to Apply:" and insert the following: Prospective students are encouraged to submit their applications and credentials as early as possible. Junior year test scores, if they meet the minimum requirements, are acceptable for freshman admission into the University. Transfer students may apply for admission as early as a year in advance of the transfer date. Listed below are dates by which applications must be received in the Office of Admissions. Applications received after these dates will be returned and may be resubmitted for a future semester. Requests for probationary admission must be made by the deadlines listed below.

Fall Semester.....	August 10
Spring Semester.....	December 20
Summer Term I.....	May 20
Summer Term II.....	June 30

Students who require on-campus housing to fulfill the Southwest Texas State University housing policy, will find that an early application for admission and acceptance into the University will mean priority in hall and roommate selection. On-campus housing may not be available immediately prior to the deadline dates above, and eligibility to register is dependent upon compliance with the University's housing policy.

If you do not enroll for the semester you indicate on your application, you must contact the Office of Admissions if you wish to be considered for another semester.

Page 12 - Delete: Under "Regular Admissions, Freshman and Transfer," delete the first paragraph and numbers 1, 2, 3, 4, 5, and insert the following: **General Procedures and Policies for Undergraduate Admissions: Effective Fall, 1984: Freshmen -** Graduates from accredited high schools must meet one of following criteria for regular admission:

A. High School Rank	Test Score ACT or SAT
Top Quarter-No minimum score required	
Second Quarter	17 750
Third Quarter	19 800
Fourth Quarter	21 900

B. 50% or higher using Predicted Index Option

Recommended High School Units: English, 4 units; Mathematics, 2 units (Algebra I and II); Social Studies, 2 units; Laboratory Science, 2 units; Foreign Language, 2 units (1 language); **Conditional Admission:** Students earning no less than 10 on ACT or 570 on SAT, must complete 12 semester hours of prescribed courses the Summer Terms (6 hours each session) and the Fall Semester at Southwest Texas State University with an over-all 2.0 grade-point average. **Transfer Admission:** Transfers from an accredited college or university, not under disciplinary probation or academic suspension, who have attempted 15 or more transferable semester hours with a 2.0 grade-point average may be admitted under the regular transfer admission program. **Appeals for Special Admission:** An applicant who does not qualify for admission under the other admissions options, may request, further consideration by submitting information which demonstrates his/her potential for academic success. Such consideration may be based upon one or more of the following: (1) extenuating circumstances, including educational disadvantage, which adversely affected the applicant's academic record and/or test scores; (2) evidence of exceptional achievement or aptitude not reflected in the applicant's record or pre-admissions test, (3) evidence of exceptional talent or ability in artistic, scholarly, or athletic performance. Information which may be considered includes, but is not limited to a statement by the applicant, recommendations from high school or college personnel, and personal references.

Page 13 - Delete: Continuation of paragraph from page 12, and delete numbers 6 and 7.

Page 15 - Change: "For more information, contact:" change to read: "Information about correspondence study may be obtained by contacting:"

Page 15 - Change: "Extension." to read:

Extension classes are client-funded contract courses offered both on and off the Southwest Texas State University campus, as well as out-of-state or out-of-the continental United States. Courses are offered for Southwest Texas State University degree credit or for transfer to other institutions. Only courses from the approved Southwest Texas State University curriculum are offered. Courses may be scheduled to meet public demand or student need, if a sufficient number of enrollees exists.

Registration for an extension class does not constitute acceptance as a degree-seeking student at Southwest Texas State University. Work completed as a Non-Matriculated student is not used in determining eligibility for admission (see page 12). Extension work intended to be credited toward an academic degree program at Southwest Texas State University must be approved by the appropriate School Dean and Department Chair.

Information about extension study may be obtained by contacting the Office of Extension Study, Southwest Texas State University, San Marcos, Texas 78666, Telephone: 512-245-2184.

FINANCIAL ASSISTANCE

Page 19 - Change: Second paragraph to read: A copy of the parent's IRS Form 1040, 1040A, or 1040EZ for the calendar year 1982 will be required for all dependent students applying for need based aid. A copy of the student's IRS Form 1040, 1040A, or 1040EZ for calendar year 1982 will be required for all student's applying for aid. **Eighth paragraph to read:** "Students receiving financial aid who withdraw....." change schedule to -

Regular Session

Prior to the first regularly scheduled class day.....	100%
During the first five class days.....	80%
During the second five class days.....	70%
During the third five class days.....	50%
During the fourth five class days.....	25%
After the fourth five class days.....	0%

Page 20 - Change: First paragraph, the sentence "If the aid does not cover actual costs, the student must be prepared to pay the difference from his/her own resources. This credit system applies to all financial aid programs except the Guaranteed Student Loan, the Hinson-Hazelwood College Student Loan, the Texas Public Educational-State Student Incentive Grant, outside scholarships, and aid over which the University has no control. (Funds from these programs are disbursed by check.)

Seventh paragraph, first sentence, remove the word "program" following "degree" and add "or certificate." Change conditions to:

1. A minimum over-all grade-point average of 2.0 is maintained on all college work, including work transfer credit; and
2. A student must have satisfactorily completed an average of 12 semester hours over all semesters enrolled at Southwest Texas State University
3. No academic conditions are applied to the student's admission or re-admission
4. A student who has been less than a full-time student (12 hours per long semester) for reasons of employment, illness, or other circumstances, prior to the semester for which aid is desired, shall be considered to be making satisfactory academic progress if he/she meets the requirement of a minimum 2.0 grade-point average and enrolls for and completes a minimum of 12 semester hours per long semester from that semester forward.

Page 21 - Change: 1982-1983 Budget to 1983-1984 Budget, to read:

	Resident	Commuter	Married
Tuition and Fees	\$ 480	\$ 480	\$ 480
Room and Board	2,300	1,100	5,300
Books and Supplies	430	430	430
Personal Expenses	*800	*700	*1,250
Transportation	740	1,290	970
Total	4,750	4,000	8,430

OUT-OF-STATE: Resident Student Total - \$5,830
 Married Student Total - \$9,510

Under "Employment," nine lines down, change "one month" to "six weeks." Under "Loan Payment Information," change sample re-payment table to:

SAMPLE LOAN REPAYMENT

Amount Borrowed	9% Minimum Payment	7% Minimum Payment	5% Minimum Payment	4% Minimum Payment
\$ 500	\$50 for 11 months	\$30 for 18 months	\$30 for 18 months	\$30 for 18 months
\$ 1,000	\$50 for 22 months	\$30 for 37 months	\$30 for 36 months	\$30 for 36 months
\$ 2,500	\$50 for 63 months	\$30 for 115 months	\$30 for 103 months	\$30 for 98 months
\$ 3,500	\$50 for 100 months	\$41 for 120 months	\$37 for 120 months	\$36 for 120 months
\$ 5,000	\$63 for 120 months	\$58 for 120 months	\$53 for 120 months	\$51 for 120 months
\$10,000	\$127 for 120 months	\$116 for 120 months	\$106 for 120 months	\$101 for 120 months

Page 22 - Change: Under "Information Center," after last sentence, add: "Summer hours are 7:30 a.m.-4:30 p.m."

Page 23 - Change: Under "Changing Schools," the second noted paragraph, change Pell (Basic) Grant in both places listed to Pell Grants.

Page 24 - Change: Under "Grants" change PELL (Basic) Grant to PELL Grant

Page 25 -

Change: PLUS (Parent Loans for Undergraduate Students) See Financial Aid Booklet See Financial Aid Booklet Through the Office of Student Financial Aid

Page 26 - Add: Following the listing of "Legislative Academic Scholarship Program," insert the following:

Office of Student Financial Aid Upper-Level Scholarship	Full-time undergrad., completed at least 60 semester hours, at least 30 earned at SWT, minimum GPA of 3.0, not be recipient of other univ. scholarship or more than \$500 per semester.	Up to \$700 per year.	Application through the Office of Student Financial Aid.
---	---	-----------------------	--

Change: "University Scholars Program," Deadline - March 15 to Deadline - January 15.

A COPY OF THE PARENTS 1040, 1040A, or 1040EZ FOR DEPENDENT STUDENTS AND THE STUDENTS 1040, 1040A, or 1040EZ FOR SELF SUPPORTING STUDENTS WILL BE REQUIRED FOR STUDENTS APPLYING FOR FEDERAL AND/OR STATE NEED BASED AID.

FEES AND EXPENSES

Page 28 - Change: Under "Fees for Special Courses, Laboratory Fees: Biology" delete Biology 2360, 4313, 4315, 4316, 4370, and 4380; add Biology 4415, 4416, 4425, and 4480; under Technology, delete Technology 4388 (\$6.00 fee) and Technology 1632 (\$8.00 fee).

Page 32 - Change: Under "Riverside Apartments (Married Student Housing)," unfurnished, change from \$182.00 to \$200.00; furnished, change from \$200.00 to \$220.00.

Under "Room and Board," fourth paragraph, change October 19 to October 18; March 10 to March 8.

Page 33 - Change: Under "The following room and board rates apply," change to the following:

	15-Meals per Week Plan*		2 Persons to a Room 20-meals per Week Plan*	
	Per Installment (2 per Semester)	Per Semester	Per Installment (2 per Semester)	Per Semester
All air-conditioned residence halls except Women's Residence Tower and College Inn	\$498.25	\$ 996.50	\$505.75	\$1011.50
Women's Residence Tower	541.50	1083.00	549.00	1098.00
Non-air-conditioned residence halls	400.75	801.50	408.25	816.50
College Inn (20 meals per week plan only)	Not Available	Not Available	611.00	1222.00
Women's Cooperative Halls	Not Available	Not Available	339.75	679.50
Students not residing in University residence halls (board only)	231.50	463.00	239.00	478.00

*Prices include State Sales Tax on meals.

Second sentence in paragraph "all room and board prices are computed....," the amount per installment for College Inn to be changed from \$169.13 to \$186.00; Women's Residence Tower per installment from \$140.88 to \$155.00; other air-conditioned rooms per installment from \$121.25 to \$133.38; other rooms per installment from \$76.88 to \$84.63.

GRADUATION AND OTHER ACADEMIC REQUIREMENTS

Page 38 - Change: Under "Credit by Examination," change the test fee from \$10.00 to \$15.00.

Page 55 - Change: Client-Funded Courses by Extension: Second paragraph, nine lines down, change "special student" to "non-matriculated student." Under "Fees:" remove the first and second sentence, replace with: **Fees:** the fee schedule for client-funded courses by extension is shown below:

	Per Semester Hour	Three Semester Hours
Undergraduate	\$ 35.00	\$ 100.00

The fee for auditing is the same.

*Tuition is payable in advance at registration

Add: Continue with the third sentence as the next paragraph. **Change:** Under "Enrollment," change to read: Southwest Texas State University, San Marcos Texas 78666. Telephone: 512/245-2184.

Page 56 - Change: Under "Health Education," change Home Economics 3339 to 3362.

Under "Mathematics," change Mathematics 2371 and 2372 to 2471 and 2472.

Page 57 - Change: Anthropology change from "26," to "20," semester hours
 Physical Education . . . add Physical Education 3322 and change
 "three semester hours elective theory" to "three
 semester hours advanced elective theory."
Add : Reading 24 semester hours, including Education 1310, 2320,
 3324, 3331, 4334, 4335, 4378j, and English 3386.

Page 58 - Change: Computer Science . . . remove "Mathematics."
 Industrial Arts change to "Technology."
 Mathematics change from "21 semester hours including 2371 and
 2372, to "23 semester hours including 2471 and
 2472."

Page 59 - Change: Physical Education . . ."three semester hours elective theory" to "three
 semester hours advanced elective theory."

SCHOOL OF APPLIED ARTS AND TECHNOLOGY

ORGANIZATIONAL CHANGE: Effective September 1, 1983

- Change the name of the School of Applied Arts to the School of Applied Arts and Technology.
- Transfer the Department of Technology from the School of Education to the School of Applied Arts and Technology.
- Transfer Occupational Education from the Office of Public Service, Adult and Continuing Education (PSACE) to the School of Applied Arts and Technology.
- Transfer vocational-teacher education from the Office of Public Service, Adult and Continuing Education (PSACE) to the Department of Technology.
- Transfer all vocational-industrial educational courses (Education 3301, 3302, 3303, 3304, 3305, 3306, 3307, and 3308) from the Department of Education to the Department of Technology.
- Transfer the Department of Journalism from the School of Applied Arts to the School of Fine Arts and Communication.
- Transfer the Institute of Criminal Justice Studies from Public Service, Adult and Continuing Education (PSACE) to the Department of Criminal Justice in the School of Applied Arts and Technology.

Aerospace Studies (ROTC)

Page 65 - Change: Fourth paragraph, change 25 hours to 13, and add to the last sentence: "and two hours of light aircraft orientation for all other junior students."

Page 66 - Change: Aerospace Studies 2120, **General Military Course.** (1-1) Soviet threat; mission and structure of Marine Corps, Navy, Army, Air National Guard, and Air Force Reserves; comparison of the United States (US) and Union of Soviet Socialist Republic (USSR) forces; the Air Force of the future. (5) (description change)

Aerospace Studies 3311, **The Professional Officer** to Aerospace Studies 3311, **Leadership and Management.** (3-1) A seminar course which examines management fundamentals and principles pertaining to group behavior processes, human motivation, and various approaches to leadership style. Emphasizes communication skills necessary for future junior officers in the United States Air Force. (title and description change)

Aerospace Studies 3312, **The Professional Officer** to Aerospace Studies 3312, **Leadership and Management.** (3-1) A seminar course pertaining to the development of leadership and managerial responsibilities of the Air Force officer. Includes the decision-making process, tools for problem-solving and career management. Continues the emphasis on communication skills. (title and description change)

Aerospace Studies 4321, **Flight Instruction Academics** to Technology 4321, **Flight Instruction Academics.** (3-0) Provides instruction necessary to pass the Federal Aviation Agency Written Examination in order to fulfill academic requirements for a private pilot's license. Includes instruction in: Aircraft Pre-flight; Flight and System Controls; Federal Aviation Agency Regulations; Navigation; Weather; Weight and Balance; Radio Communications; and Airman Information Manual (This course is not limited to Air Force ROTC students, but is restricted to juniors and seniors except by approval of the instructor.) (prefix change)

Military Science (ROTC)

Page 68 -

Add: Military Science 2112, **Dynamics of Tactical Operations.** (1-0) - add the following to the current paragraph: Continuation of Military Science 2211. Student must enroll in Military Science 1000 concurrently.

Change: Military Science 2211, **American Military History** to Military Science 2211, **Dynamics of Tactical Operations.** (2-0) Students select the section (mountaineering, orienteering, marksmanship, conflict simulation) that corresponds to their own interests and personal desires. The objective of this course is to instill self-confidence in the individual while providing a general knowledge of the organization of the Army and ROTC. (title and description change)

Military Science 3311, **Principles and Fundamentals of Military Operations I.** (3-0) to Military Science 3111, **Principles and Fundamentals of Military Operations I.** (1-0) This course includes theory and application of tactical military operations through platoon level, with emphasis on combined arms doctrine. The course also addresses the institutional role of the commissioned officer. Departmental approval is required for enrollment. Students must enroll in Military Science 1000 and Military Science 4364 concurrently. (value and minor description change)

Add: Military Science 4364, **Military History of the United States.** (3-0) A specialized study of the military problems of the United States since 1789 and their impact upon non-military problems. Departmental approval is required for enrollment. Students must also enroll in Military Science 1000 and 3111 concurrently. **See History 4364.**

Department of Agriculture

Page 69 - Change: Under Bachelor of Science in Agriculture Degree, Sophomore Year, change Agriculture requirements to: Agriculture 2373, and elect three/four hours from 2313, 2421, or 2379, change hours to 6-7, total hours to 17-18.

Department of Criminal Justice

Page 78 - Change: Under "Sophomore Year," English (literature), 6 hours to 3 hours.

Department of Home Economics

Page 82 - Change: Under "Minor in General Business," Senior Year, change "Electives, free from 7-11 to 1-5;" add "Electives, advanced, 6 hours."

Page 83 - Change: Under Major in Family and Child Development, Junior Year, change Home Economics 4101 to 4101 (repeat), change hours from 10 to 11; delete Medical Record Administration 3367, add Health Administration 4346; change total hours from 29-31 to 30-32. Under Senior Year, change Electives from 6-9 to 2-8, total hours from 31-34 to 27-33.

Page 84 - Change: Under "Minor in General Business," Senior Year, change Electives, advanced from 7-9 to 4-9; change Journalism to read: 3333 (or 3343 or 3367); change total hours from 29-31 to 26-31.

Page 85 - Add: To *Minor in Art, add (131 semester hours); Minor in Journalism, add (132 semester hours); under "Junior Year," add Psychology 1300 (or Sociology 1310), 3 hours, change total hours from 30-31 to 33-34; under "Senior Year," add to Computer Information Systems (or Marketing 3357); change "Electives, advanced" from 5 to 1, change total hours from 35 to 31.

Page 86 - Add: Under "Senior Year," change "Electives, free," to 0-3, total hours from 31 to 28-31; change Journalism to read: Journalism 3333 (or 3343 or 3367). Add to "Minor in General Business," (129 semester hours).

Page 87 - Change: Under "Senior Year," (top of the page), change Electives, advanced from 6 to 3; to "Minor in Journalism add (130 semester hours); under "Senior Year," change Journalism requirement from 12 to 11, add "Electives, advanced, 1 hour.

Page 88 - Change: Under "Major in Interior Design," change hours from 128 to 131; under "Course Requirements," end of second line, insert "Technology and Art, along with those in." Under "Related Minor," change to read: ***The Minor for Interior Design Majors is in Art.** Under "Junior Year" change Home Economics 1321 to 3321; add Technology 4313 - 3 hours, change total hours from 29-32 to 32-35.

Page 89 - Add: To "Clinical Dietetics," add (130 semester hours); under "General Dietetics," add (132 semester hours); **Change:** Under "Senior Year," change Electives, advanced from 6-9 to 5-9, change total hours from 30-34 to 29-34.

Page 90 - Change: Under "Senior Year," change Elective from 3 to 2, change total hours from 27-28 to 26-27.

Page 92 - Add: Home Economics 3322 to the prerequisite for Home Economics 3323. Add Prerequisite: Home Economics 2322 and 3322 to Home Economics 3324, **Professional Practices.**

Change: Home Economics 3329, second line, change "basic art" to "basic design."

Page 93 - Change: Lecture/Laboratory hours from (3-0) to (1-4), Home Economics 3391. Lecture/Laboratory hours from (3-0) to (0-6), Home Economics *4301.

Page 94 - Change: Prerequisite for Home Economics 4324, change to read: Home Economics 3322, 3323, 4322, and 4323. Lecture/Laboratory hours for Home Economics 4352 from (2-2) to (3-0).

Department of Technology

- Transfer the Department of Technology from the School of Education to the School of Applied Arts and Technology.
- Transfer all vocational-industrial educational courses (Education 3301, 3302, 3303, 3304, 3305, 3306, 3307, and 3308) from the Department of Education to the Department of Technology.

Page 189 - Change: Under "Industrial Technology," change semester hours from 129-132 to 129 to 133. Under "Freshman Year/Hours," change Mathematics 2317 to 2417, 6-7 hours, total hours 31-33; Sophomore Year/Hours, change English (literature) from 6 to 3 hours, total hours from 34 to 31.

Page 190 - Change: Under "Industrial Systems Management," change semester hours from 138-140 to 140-142; under Freshman Year/Hours, change Mathematics 2371, 2372, to 2471, 2472. change hours from 6 to 8, total hours from 33 to 37.

Page 191 - Change: Under "Information Systems Management," change semester hours from 128-130 to 130-132; under Freshman Year/Hours, change Mathematics 2371, 2372 to 2471, 2472, change hours from 6 to 8, total hours from 33 to 35.

Page 192 - Delete: "Requirements for a Non-teaching Minor in Industrial Arts," - entire statement. **Add:** "Minor in Technology" with following statement: Twenty-four semester hours are required for a minor in technology. Twelve semester hours must be advanced. Other courses will be determined by conference with the Chairman of the Department of Technology.

Occupational Education

Page 266-268 - Transfer Occupational Education from the Office of Public Service, Adult and Continuing Education (PSACE) to the School of Applied Arts and Technology.

SCHOOL OF BUSINESS

Page 103 thru 124 - Change: All courses listed as Business Administration (BA) will change to General Business (GB) (prefix change - undergraduate only - effective 9/1/83).

Page 103 - Change: Under "Core Curriculum" change Computer Information Systems 2320 to 1320.

Page 104 - Change: Under "Freshman and Sophomore Years," change Computer Information Systems 2320 to 1320.

Department of Accounting and Computer Information Systems

Page 105 - Change: Under "Major in Accounting," First Semester, change Accounting 4327 to 3327; Second Semester, change Accounting 4365 to 3365: Senior Year, Second Semester, place asterisk in front of "Accounting, advanced electives - 6 hours," add footnote —*To be chosen from Accounting 4314, 4328, 4363, 4366, 4380, 4385, or 4388.

Page 106 - Change: Under "Major in Computer Information Systems," Freshman Year, First Semester, change Computer Information Systems 2320 to 1320; Second Semester, Computer Information Systems 2321 to 1321: Sophomore Year, First Semester, delete Speech Communication 2320 and add Computer Information Systems 2322; Second Semester, change Computer Information Systems 2322 to 2371: Junior Year, First Semester, delete Computer Information Systems 3321 and add 3371; delete Humanities or Behavioral Science, 2-3 hours and add Speech Communication 2320, 3 hours with total hours being 15; Second Semester, change Computer Information Systems 3371 to 3323; add Management 3303, delete Electives, free - 6 hours; add Humanities or Behavioral Science, 2-3 hours with total hours being 14-15: Senior Year, First Semester, delete Computer Information Systems 3323 and add Marketing 3343; add Electives, free for 3 hours; delete Management 3303, change hours from 6 to 3; Second Semester, change Electives, free from 2-5 to 5-8; delete Marketing 3343.

Page 107 - Add:

Accounting 3327, **Income Tax Accounting.** (3-0) Principles and problems in determining and reporting income taxes for individuals, investors, and sole proprietors. Prerequisite: Accounting 2362. (level and description change - see Accounting 4327,

Accounting 3363, **Governmental Accounting.** (3-0) (level change - Accounting 4363)

Accounting 3365, **Cost Accounting.** (3-0) Accounting for materials, labor, and factory overhead, job cost accounting, process cost accounting; distribution costs; budgetary procedures, standard costs. Prerequisite: Accounting 2362. (level and description change - see Accounting 4365)

Accounting 3385, **Accounting Systems.** (3-0) Elements of accounting information systems; computer design and implementation of accounting systems; integration of functional subsystems into accounting information system, as well as examination of the area of internal control for accounting systems. Prerequisite: Accounting 2362 and Computer Information Systems 1320) (level and description change - see Accounting 4385)

Change: Accounting 4328, **Advanced Tax Accounting:** Prerequisite: Accounting 4327 to Accounting 3313 and 3327.

Page 108 - Delete: Accounting 4385, **Accounting Systems.** **Add:** Accounting 4399, **Applied Problems in Accounting.** (3-0) A one semester course of independent reading, tutorial sessions, individual research projects, or business internship. Emphasis is on the applications of accounting theory to problems in business involving financial analysis. Open to students of senior rank with consent of the Chair, Department of Accounting and Computer Information Systems.

Change: Computer Information Systems 2320, **Introduction to Data Processing** to Computer Information Systems 1320, **Introduction to Data Processing.** (3-0) Introduction to the electronic computer as a business tool; introduction to the programming development cycle; introduction to management information systems analysis and design. (level and description change)

Add: Computer Information Systems 1321, **Techniques of Computer Programming.** (3-0) The introduction and use of techniques of program development, top-down structured programming, step-wise refinement, and program correctness. the application of these programming techniques to business and economic problems using high-level symbolic programming languages. Prerequisite: Computer Information Systems 1320.

Prerequisite: Computer Information Systems 1320.
Delete: Computer Information Systems 2321, **FORTAN Language Programming.** **Change:** Computer Information Systems 3321, **COBOL Programming** to Computer Information Systems 2371, **COBOL Programming.** (level and sequence change)

Department of General Business

Page 117 - Change: General Business 1321, **Introduction to Business** to General Business 1321, **Contemporary Business** (title change).

Page 118 - Change: General Business 3361, **Business Law I** to General Business 3361, **Legal Environment of Business.** (3-0) This course explores the basic characteristics of the American legal system and the legal aspects of business transactions. Topics include the nature and sources of law, court systems and procedure, torts, contracts, sales, and governmental regulation. (title and description change)

Change: General Business 3362, **Business Law II** to General Business 3362, **Commercial Law and Business Associations.** (3-0) This is a traditional business law course. Topics include negotiable instruments, agency business organizations, secured transactions, and bankruptcy. (title and description change)

SCHOOL OF EDUCATION

ORGANIZATIONAL CHANGE: Effective September 1, 1983

- Transfer the Department of Psychology from the School of Education to the School of Liberal Arts.
- Transfer the Department of Technology from the School of Education to the School of Applied Arts and Technology.
- Transfer all vocational-industrial educational courses (Education 3301, 3302, 3303, 3304, 3305, 3306, 3307, and 3308) from the Department of Education to the Department of Technology.

Department of Education

Page 152 - Change: Under "Required Professional Sequence," first paragraph, change "Eighteen" to "Nineteen" - "For elementary teachers," add Education 3114 in numerical order; "For secondary teachers," add Education 3114 in numerical order; "For all-level certification," add Education 3114 in numerical order, and "For all-level physical education certification," add Education 3114 in numerical order. Under "Directed Teaching," fourth paragraph following "(For elementary majors," "for secondary students," "for all-level certification," and "for all-level physical education,") add Education 3114 to each.

Page 153 - Add: Under "Curriculum for Elementary Teachers Leading to the Degree of Bachelor of Science in Education," insert the following as the sixth paragraph: Students seeking a degree and certification in elementary education will pursue study in four categories: (1) Academic Foundations, (2) specializations, (3) professional courses, and (4) electives adequate to complete the number of hours required for graduation. The following schedule represents a typical program; however, the student is urged to develop his/her program on a semester-by-semester basis in consultation with his/her adviser. **Change:** Under "JuniorYear/Hours" add Education 3114 and change total hours from 9 to 10, change total hours from 31-33 to 32-33.

Page 155 - Change: Life-Earth Science: remove Biology 3352, change Biology 4316 to 4416.

Page 156 - Change: Under "Teachers of Young Children:" delete "Education 4321, 4350; Mathematics 4302, plus three semester hours to be selected from". **Add:** New paragraph - **Reading Education:** Students preparing to be secondary teachers may choose reading education as a teaching field. The requirements include the completion of 24 semester hours as follows: Education 1310, 2320, 3324, 3331, 4334, 4335, 4378J, and English 3386.

Page 157 - Add: Education 3114, **Introduction to Education.** (0-1) A one-hour course designed to assist students in an examination of the profession of teaching. Current state laws regarding Multi-cultural Education and Mainstreaming will be examined, as will the ethical and legal responsibilities of the profession. Admission tests and requirements will be administered during the course. This is a laboratory for Education 3311 and 3312. **Delete:** Under Education 3321, **Science in the Elementary School,** remove the last sentence "Laboratory, two hours a week."

Page 158 - Add:

Education 3380, **Occupational Analysis.** (6-0) Analysis of office occupation to determine the skills and related information needed for the purpose of determining the contents of a course of study needed by students for job entry level skills in an approved office occupation.

Education 3381, **Instructional Strategies in Vocational Office Education Programs.** (6-0) For laboratory and teacher-coordinators of Vocational Office Education Programs. Development of strategies based on an assessment of individual students' needs and office career objectives.

Education 3382, **Organizing and Implementing Cooperative Vocational Office Education Programs.** (6-0) Identification of the Vocational Office Education student, placement of student in office occupations, evaluating prospective business offices to determine the effectiveness of office machines and office occupations which insure job entry employment.

Page 161-162 - Delete: Transfer all Vocational-Industrial Educational Courses (Education 3301, 3302, 3303, 3304, 3305, 3306, 3307, and 3308) from the Department of Education to the Department of Technology.

Department of Health and Physical Education

Page 164 - Change: Under "Sophomore Year/Hours" from 33-39 to 36-39; under "Senior Year/Hours" from 27-39 to 27-36. Under Bachelor of Science in Education Degree, Note No. 4. *Four year students take clinical experience course 1196, 2196, 3196, and 4196 change to 1296, 2296, 3296, and 4296; last sentence, repeat same number change in courses listed.

Page 165 - Change: Under "Freshman Year/Hours," change Physical Education 1196 to 1296, hours from 5 to 7, total hours from 35-41 to 37-43; Sophomore Year/Hours, change Physical Education 2196 to 2296, hours from 2 to 4, total hours 36; Junior Year/Hours, change Physical Education 3196 to 3296, add 3342, hours from 14 to 19, total hours from 30-32 to 35-37; Senior Year/Hours, change Physical Education 4196 to 4296, hours from 2 to 4, total hours from 29-32 to 31-34. Under "Dance Certification," Sophomore Year/Hours, change Physical Education 2108 and 2109 to 2208 and 2209, hours from 11 to 13, total hours from 36-39 to 38-41.

Page 166 - Add: Under "Junior Year/Hours," add Physical Education 3366, change hours from 12 to 15, total hours from 31-36 to 34-41; Senior Year/Hours, add Physical Education **3367, change hours from 12 to 15, total hours from 27-33 to 30-36. Under "Activity Courses Open to all Students," add to number 1—Sailing: 1106 Beg., 1251 Adv. Under number 4—change, "Swimming from beginning to Life Saving and Water Safety Instruction: 1124-1128, 1225" to Swimming from beginning to Life Saving 1124-1128, Water Safety Instruction 1225; add number 7, Strutters: 1160. **Change:** Under "Courses in Physical Education," change **1196, 2196, 3196, 4196, **Field Problems in Athletic Training.** (1-12) to **1296, 2296, 3296, 4296, **Field Problems in Athletic Training** (3-20) A study of the training room and its practices and procedures. A weekly three hour seminar and a minimum of 20 hours per week of clinical experience. (value change and minor description change)

Page 167 - Add: Physical Education 1251, **Advanced Sailing.** (1-3) An advanced experience in sailing and seamanship, including advanced instruction in sailing skills, familiarity with different types of boats, racing, water safety, and increasing appreciation of sailing as a leisure time activity. **Change:** Physical Education 2108, **Dance Composition I** to Physical Education 2208, **Dance Composition I** (value change); **Change:** Physical Education 2109, **Dance Composition II** to Physical Education 2209, **Dance Composition II** (value change); **Change:** Physical Education (Service) 1202, **Scuba Dive Master** to Physical Education 3300, **Scuba Dive Master** (3-6) Designed to train highly competent divers in skills to supervise and organize all phases of recreational diving. Prerequisite: Physical Education (Service) 1201 or approval of instructor, (prefix and number change.)

Add: Physical Education 3301, **Scuba Diving-Assistant Instructor.** (3-6) Lecture, laboratory in teaching skills leading to assistant instructor's certification for Professional Association of Diving Instructors (PADI). **Change:** Physical Education (Service) 1203, **Professional Diving Instructor** to Physical Education 3302, **Professional Diving Instructor.** (3-6) Leads to International Certification by the Professional Association of Diving Instructors (PADI) as scuba instructors. Prerequisite: Physical Education (Service) 1202 and approval of instructor. (prefix and number change)

Page 168 - Add:

Physical Education 3342, **Athletic Therapeutic Exercise and Modalities.** (3-2) Sports therapy clinical techniques involved in muscle testing, the use of therapeutic modalities, goniometry and therapeutic exercise.

Physical Education 3366, **Labanotation.** (3-0) To introduce the basic skills of reading and writing labanotation. To develop adequate skills for notating short dances and for reading and reconstructing previously notated scores.

*Physical Education 3367, **Dance Performance Workshop.** (2-4) Designed to give the advanced dance student experience in learning and performing varied styles of dance choreography. Established dance works and experimental works will be included in order to develop a professional level ability to learn, remember, and perform a wide repertory of choreography. Prerequisites: Permission of instructor. **Footnote:** *May be taken more than once for credit.

Page 171 - Add: Health Education 1100, **Lifestyle for Health.** (1-1) A study of the factors which determine the quality of an individual's health. Special emphasis is given to stress management, nutrition, fitness, time management, weight control, and family planning.

Page 172 - Change: Under "Bachelor of Science in Recreational Administration," Sophomore Year/Hours change Recreation 2320 to 2335, 2310 to 2410, hours from 9 to 10, total hours from 32 to 33; Junior Year/Hours, change Recreation 3325 to 3319 and 3335 to 3340.

Page 173 -

Delete: Recreation 2310, **Methods and Materials in Social and Indoor Sports** and Recreation 2320, **Outdoor Recreational Sports.**

Add: Recreation 2410, **Indoor and Outdoor Recreational Leadership.** (4-0) Discussion of leadership theories and skill development for indoor/outdoor games and sports. Teaching activities to develop skill in programming various indoor/outdoor recreational settings. Recreation 3319, **Marketing Recreation and Leisure Services.** (3-0) Provides knowledge and understanding of the nature and process of marketing as it relates to recreation administration.

Delete: Recreation 3325, **Recreational Leadership.**

Change: Recreation 3335, **Recreation Program Development** to Recreation 2335, **Recreation Program Development.** (level change only) Delete prerequisite.

Add: Recreation 3340, **Design and Maintenance of Recreational Facilities.** (2-1) Introduce theories and provide practical experience in the design, development, operation, maintenance, administration of various recreational facilities. Recreation 4320, **Leisure Education.** (3-0) A philosophical overview of leisure education emphasizing the approaches and strategies that can be utilized in the leisure education process.

Change: Prerequisite for Recreation 4380 from Recreation 3325 or 3335 to 3319 or 3340.

Department of Special Education

Page 186 - Add:

Special Education 2380, **Assessment and Evaluation of Exceptional Individuals.** (3-2) Formal and informal assessment and evaluation of exceptional learners (including psychological, social, educational, and physical); selection, construction, administration, interpretation, and utilization of results. Prerequisite: Special Education 2370 or by special permission.

Special Education 3335, **Curriculum and Materials for Exceptional Learners.** (3-2) Basic organization of programs, instructional aids and materials, records and reports, clinical observations. Special emphasis on specific teaching approaches appropriate for the individual differences characteristic of exceptional learners. Prerequisite: Special Education 2370.

Special Education 3340, **Educational Programming for Exceptional Students.** (3-2) Design and implementation of individualized programs for exceptional students; determination of learner strengths and deficiencies; educational planning, instructional modification, and behavior control; supervised clinical practice. Supervised clinical experience. Prerequisite: Special Education 2370, 2380, and 3335.

Special Education 4375, **Behavior Management of Exceptional Learners.** (3-0) Behavior management strategies and techniques to prevent, alter, improve, and maintain social, emotional, and academic behaviors of exceptional learners; special emphasis on environmental engineering, management of surface behavior, behavior modification techniques, and appropriate referral sources.

Special Education 4380, **Practicum in Special Education.** (3-2) Supervised teaching and clinical experience with individuals demonstrating a variety of educational disabilities; application of learned competencies or characteristics of exceptional individuals, assessment procedures, educational programming, specific teaching approaches, and evaluation of instructional strategies. Prerequisite: Special Education 1320, 2380, 3335, 3340, 4375.

SCHOOL OF FINE ARTS AND COMMUNICATION

ORGANIZATIONAL CHANGE: Effective September 1, 1983

- **The School of Creative Arts redesignated to the School of Fine Arts and Communication.**
- **Transfer the Department of Journalism from the school of Applied Arts to the School of Fine Arts and Communication.**

Department of Music

Page 133 - Change: Fourth paragraph under Department of Music, "The following courses are open to non-majors as electives:" - remove Music 4313, add Music 3375.

Page 138 - Change:

Music 3340, **Music Activities in the Elementary School** to Music 3340, **Music Methods for Elementary I.** (3-1) An introduction to the elementary music curriculum and to teaching basic musical concepts. An emphasis on singing and listening experiences for children. (title and description change)

Music 3341, **The Music Program in the Secondary School** to Music 3341, **A Survey of Ensemble Performance Literature.** (3-0) Detailed consideration of literature of all periods appropriate for performance by public school performance ensembles. Repertoire selection and performance problems peculiar to small, medium, and large high schools are discussed. (title and description change)

Music 3353, **The Instrumental Music Program in the Secondary School** to Music 3353, **Performance Ensemble Techniques.** (3-0) A methods course designed for performance ensemble conductors. Includes supervision, administration in addition to rehearsal methodology. (title and description change)

Music 3369, **Teaching Music in the Middle and Junior High Schools** to Music 3369, **Music Methods for Elementary II**. (3-0) Techniques, activities and materials for the elementary class. Am emphasis on contemporary methods, experiences in creative movement and rhythm, and playing simple classroom instruments. (title and description change)

Add: Music 3375, **Jazz, Pop, and Rock**. (3-0) Jazz originated in American, free of European influence, and has been of great importance in the development of 20th Century music. This course is designed to allow students to: (1) learn the structure and history of jazz through readings and lecture; (2) understand the contribution of jazz to contemporary music and to their daily lives; (3) experience the chronological development of jazz through recordings and live performance.

Delete: Music 4314, **Survey of Twentieth Century Music**.

Page 139 - Change: Music 4330, **Creative Musical Techniques** to Music 4330, **Form and Analysis**. (3-0) Principles of form and analysis and its relationship to creative and interpretive skills taught through arranging and writing of music in various styles, including the Baroque, Classical, Romantic, and present eras. Prerequisite: Music 2462 or permission of instructor. (title and description change)

SCHOOL OF HEALTH PROFESSIONS

Department of Allied Health Sciences

FOR NEW REQUIREMENTS IN THE ASSOCIATE IN APPLIED SCIENCE DEGREE WITH A MAJOR IN RESPIRATORY THERAPY (listed on page 200 of the 1982-1984 catalogue) CONTACT THE CHAIRMAN OF THE DEPARTMENT OF ALLIED HEALTH SCIENCES.

Page 201 - Change: Bachelor of Science in Health Professions, II. "Core Curriculum of 31 semester hours;" change to: II. Academic Foundations of 44 semester hours. Under Bachelor of Science in Health Professions, add (40 advanced hours required); under II., change to read:

English 1310, 1320, 2351 (or 3 hours literature)	9 hours
History 1310, 1320	6 hours
Political Science 2310, 2320	6 hours
Psychology 1300	3 hours
Science, Mathematics, or Modern Languages (select from two)	12 hours
Sociology	3 hours
Speech	3 hours
Electives	<u>2</u> hours
	<u>44</u>

Page 202 - Change: Under "Junior Year," change Medical Technology 4324 to 4424, hours from 11 to 12, total hours from 32 to 33; under "Senior Year," change Medical Technology 4122 to 4222, hours from 14 to 15, change 4125 to 4225, hours from 13 to 14, total hours from 39 to 41, change over-all total hours from 143 to 145.

Page 203 - Change: Under "Courses in Respiratory Therapy," change second paragraph to read: Applications to the program may be submitted until April 15th to the Program Director of Respiratory Therapy. All applicants will be notified of their admittance status during May. Enrollment in the Respiratory Therapy Program is limited by student/faculty ratios in the clinical phases of the program.

Page 204 - Change: First paragraph, change first sentence to read: The program is fully accredited by the American Medical Association and qualifies graduates to attempt the written examinations given by the National Board for Respiratory Care when all requirements are completed. In the second sentence, insert "two year," for the therapist's program.

Page 206 - Change: First paragraph, second sentence, (15 students/year) to (10 students/year). Medical Technology 4122, **Medical Parasitology** (1-3) to Medical Technology 4222, Medical Technology (1-3) (value change). Medical Technology 4125, **Laboratory Management and Supervision** (1-0) to Medical Technology 4225, **Laboratory Management and Supervision** (2-0) (value change). Medical Technology 4324, **Immunology and Serology** (3-3) to Medical Technology 4424, **Immunology and Serology** (3-3) (value change).

Department of Health Administration

Page 210 - Change: Under "Bachelor of Science in Health Professions," add: (40 advanced hours required). Under II., change to read: II. Academic Foundations of 44 semester hours.

English 1310, 1320, 2351(or 3 hours literature)	9 hours
History 1310, 1320	6 hours
Political Science 2310, 2320	6 hours
Psychology 1300	3 hours
Science, Mathematics, or Modern Languages (select from two)	12 hours
Sociology	3 hours
Speech	3 hours
Electives	2 hours
	<u>44</u>

III. Major: Thirty-two semester hours in **Health Care Administration**, add: Health Administration 4320, 4321,

Page 211 - Change: III., continued - change total hours from 26 to 32. Under "core Curriculum Requirements," add "(or Computer Science 1308)" to Computer Information Systems 2320; change total hours shown for "Electives," from 11 to 10; change "TOTAL - Freshman and Sophomore Years" from 67 to 66 hours.

Page 212 - Change: "Junior Year," Fall Semester, change MRA 3365 to 3363; add RT 1210, change total hours from 15 to 17. "Spring Semester," change MRA to 3310 to 3210, MRA 3364 to 3464. "Senior Year," Fall Semester, change MRA 4310 to 4210, change total hours from 15 to 14; "Spring Semester," change MRA 4183 to 4283, change 1 hour to 2; change MRA 4688 to 4387, change 6 hours to 3; change MRA 4689 to 4388, change 6 hours to 3; add MRA 4389 - 3 hours; add HA 4221 - 2 hours. Change total hours for junior and senior years from 61 to 62 semester hours. First paragraph, first sentence, change Internship I and II to Internships I, II, and III. Next sentence, change 9-10 weeks to 10 weeks.

Page 213 - Add: Health Administration 4346, **The Recognition and Management of Childhood Diseases.** (3-0) A course to prepare individuals responsible for the management and staffing of child care programs to be able to recognize and manage the early signs and symptoms of common contagious and hereditary diseases of children along with a recognition of the early manifestations of physiological and functional disorders common to and of importance to the developing child.

Page 214 - Delete: Prerequisite following Medical Record Administration 2360, **Medical Terminology.**

Change: Medical Record Administration 3310, **Medical Record Directed Experience I** (0-8) to Medical Record Administration 3210, **Medical Record Directed Experience I.** (0-8) (value change)

Medical Record Administration 3360, **Principles of Health Care Statistics.** (3-0) to Medical Record Administration 3360, **Health Record Statistics.** (3-0) (title change)

Medical Record Administration 3363, **Medical Record Science I.** (2-2) An introduction into the principles and procedures used in medical record organization, maintenance and retention, numbering and filing systems and procedures used in medical record organization, maintenance and retention, numbering and filing systems and procedures, forms control and design and microfilming. Emphasis will be placed upon the function and duties of the medical record administrator, and relationships of the medical record to the health care delivery system. (description change)

Medical Record Administration 3364, **Medical Record Science II.** (2-2), change to Medical Record Administration 3464, **Medical Record Science II.** (3-2) Classification and indexing of diseases and operations. Maintenance of registers and indexes. Transcription of medical record information. (value and description change)

Medical Record Administration 4183, **Medical Record Seminar.** (2-0) to Medical Record Administration 4283, **Medical Record Seminar.** (2-0) (value change)

Medical Record Administration 4310, **Medical Record Directed Experience II.** (0-8) to Medical Record Administration 4210, **Medical Record Directed Experience II.** (0-8). (value change)

Page 215 - Change:

Medical Record Administration 4382, **Survey of Utilization Review and Medical Care Evaluation Studies.** (3-0) to Medical Record Administration 4382, **Quality Assurance in the Health Care Field.** (3-0) Overview of regulatory agency requirements for utilization review and quality assurance. Methods for integrating quality assurance, risk management and utilization review. Methods and procedures for peer review. Completion of medical care evaluation studies. (title and description change)

Medical Record Administration 4688, **Internship I.** (6 Weeks Rotating Internship) to Medical Record Administration 4387, **Internship I.** (3 Weeks Rotating Internship) (value, sequence, lecture/laboratory change)

Medical Record Administration 4689, **Internship II.** (6 Weeks Rotating Internship) to Medical Record Administration 4388, **Internship II.** (3 Weeks Rotating Internship) Administration training under the direction of a Registered Record Administrator. Stress on personnel problems, interdepartmental relations and committee assignments. Full-time participation of the student is required. (value, sequence, description, lecture/laboratory change)

Add: Medical Record Administration 4389, **Internship III.** (3 Weeks Rotating Internship) Administrative training under the direction of a Registered Record Administrator in a non-traditional health care setting. Affiliations will be in long term care facilities, home health agencies, State and Federal Agencies, clinic and community health agencies. Full-time participation of the student is required.

SCHOOL OF LIBERAL ARTS

FOR INFORMATION REGARDING THE NEWLY APPROVED BACHELOR OF SCIENCE IN APPLIED SOCIOLOGY DEGREE, CONTACT THE CHAIR, DEPARTMENT OF SOCIOLOGY-ANTHROPOLOGY.

ORGANIZATIONAL CHANGE: Effective September 1, 1983

- **Transfer the Department of Psychology from the School of Education to the School of Liberal Arts.**

Department of English

Page 221 - Add: Place an asterisk before English 3314, with "Footnote:" to indicate: *May be repeated with different emphasis for additional credit.

Department of Geography and Planning

Page 230 - Delete: Geography 4329, **Geography of the Soviet Union.** **Add:** Geography 4422, **Computer Cartography.** (2-4) The use of software to display information about the earth's surface and various types of statistical data on maps and graphs. *Geography 4440, **Topics in Cartography.** (2-4) Advanced or specialized techniques in cartography, photogrammetry, remote sensing or other related topics. Specific topics will vary. Student should consult department. *Footnote: - May be repeated for credit with change of content.

Department of Modern Languages

Page 241 - Change: Spanish *3300, **Multicultures of America: Spanish** to Spanish 3300, **Mexican Literature.** (3-0) A study of the outstanding literary works of Mexico from the Age of Discovery to the present. (title and description change - remove asterisk)

Page 242 - Add: Spanish 4361, **Masterpieces of Hispanic Poetry.** (3-0) Selected studies in Spanish and Latin American poetry, with attention to critical analysis of texts. **Add:** Spanish 4362, **Masterpieces of Hispanic Drama.** (3-0) Selected studies in Spanish and Latin American drama, with attention to critical analysis of texts. **Delete:** Spanish 4360A, B, **Hispanic Poetry and Drama.**

Page 243 - Add: Linguistics 4330, **The Psychology of Language,** place two asterisks before Linguistics 4330.

Department of Philosophy

Page 245 - Add: Philosophy 4355, **Philosophical Theory of Science.** (3-0) A study of the major theories concerning the nature and value of scientific method. **Add:** Philosophy 4356, **Philosophical Theory of Knowledge.** (3-0) A study of the major theories concerning knowledge, belief, certainty, and perception. Topics will include empiricism, rationalism, realism, and idealism. **Delete:** Philosophy *4360A, B, C, **Philosophy Theory.**

Department of Political Science

Page 251 - Add: Political Science 3319, **Urban Management and Politics** - following description of this course, insert (May be used to satisfy Group I requirements).

Page 254 - Change: **Bachelor of Arts Degree in International Studies**, No. 3, change "major" to "minor." - No. 5, "or the Area Studies major" change "major" to "minor." **Courses in Area Studies Major** - change "major" to "minor." **Inter-American Area** (select 18 semester hours): - change to (select 12 semester hours). **European Area** (select 18 semester hours): - change to (select 12 semester hours).

Page 255 - Change: **Middle East-African Studies** (select 18 semester hours): - change to (select 12 semester hours). **Asian Area** (select 18 semester hours): - change to (select 12 semester hours).

Department of Sociology-Anthropology

Page 256 - Change: **Bachelor of Arts Degree with a Major in Sociology**, under "Notes," No. 4, delete ", 3305 (or 3306), 3307, and 3308 only." Under "Junior Year" - change the requirement of Sociology from 22 to 12 semester hours.

Add: **Bachelor of Science in Applied Sociology Degree (128 semester hours) - New degree program approved by our Board of Regents (11/19/82) and the Coordinating Board (3/1/83)--- Contact the Chair, Department of Sociology-Anthropology for information and requirements.**

Page 257 - Add: **Bachelor of Science in Education Degree**, under "Notes," add No. 4. A minor in Sociology requires 18 semester hours, including Sociology 1310 (or 3300), 3305 (or 3306), 3307, and 3308.

Page 258 - Change: **Bachelor of Arts Degree with a Major in Anthropology** - under "Notes," No. 3, "A minor in anthropology requires 26 semester hours ---" change to "A minor in anthropology requires 20 semester hours ---"

Page 259 - Change: Sociology 2315, **Sociological Methods** to Sociology 2315, **Introduction to Statistical Package for the Social Sciences** (3-0) A first course in the use of statistical package for the social sciences, designed for the student who wishes to learn to use the computer without learning computer programming. The coverage includes control card preparation and data preparation, access and applied statistical analysis. No previous computer experience is required. (title and description change)

Page 261 - Add: Sociology 4383, **Current Issues in Gerontology**. (3-0) An in-depth examination of one or more of the issues related to aging, such as, families in later life, minority aged, middle-age and aging, and retirement. **Add:** *Sociology 4384, **Internship in Gerontology**. (3-0) A course that enables a student to work under supervision in a community organization or program that deals directly with older citizens. *Footnote: - May be repeated for credit.

Page 262 - Add: Anthropology 4630, **Archaeological Field School**. (Fieldwork hours per day, 6; laboratory hours per day, 2) This course is designed to train students in the skills and techniques of modern archaeological survey and excavation of prehistoric sites.

SCHOOL OF SCIENCE

Department of Biology

Page 272 - Change: Under "Majors," - **Aquatic Biology:** Requirements - change Biology 4315 to 4415 and Biology 4316 to 4416. Under "Majors," - **Marine Biology:** Requirements - last sentence change to read "At least 60 semester credit hours must be completed at Southwest Texas State University (see the departmental chairman for details of this program). Under "Majors," - **Wildlife Biology:** Requirements - change Biology 4316 to 4416 and Biology 4325 to 4425

Page 275 - Change: Biology 4315-5315, **Ichthyology** to Biology 4415-5415 (value change only). Biology 4316, **General Ecology** to Biology 4416 (value change)

Page 276 - Change:

Biology 4325-5325, **Biometry** to Biology 4425-5425, **Biometry**. (3-3) Basic principles of statistical methods as applied to biological problems such as sampling techniques, analysis of data, experimental design and population dynamics. Emphasis will be on practical application. Three hour laboratory will provide supervised solution of statistical problems using hardware and software tools of the trade as well as supervised experience with statistical simulations on color graphics microcomputers. (F, S, SS) Prerequisite: One year of mathematics. (value and description change)

Biology 4380-5380, **Cytology and Microtechnique** to Biology 4480-5480, **Cytology and Microtechnique**. (3-3) The structure of prokaryotic and eukaryotic plant and animal cells as revealed by the electron microscope. Includes the structure and function of cytoplasmic organelles, the nucleus, and an introduction to cytogenetics. The laboratory includes instruction in the cryostat, electron microscopy, and classical paraffin techniques for the light microscope. (F, SS) (value and description change)

Department of Chemistry

Page 278 - Change: Bachelor of Science Degree - Under "Freshman Year" requirements for Mathematics 2363 (or 2317) change to (or 2417) and 3-4 hours, with total hours 31-32. Under "Sophomore Year" requirements for Mathematics 2371, 2372 change to 2471, 2472 and 8 hours, total hours 36.

Page 279 - Change: Bachelor of Arts Degree - Under "Freshman Year" requirements for Mathematics 1371 change to 1317. Under "Sophomore Year" requirements for Mathematics 2371, 2372 change to 2471, 2472 and 8 hours, with total hours 36.

Page 281 - Add:

Chemistry 4321, **Advanced Organic Chemistry**. (3-0) A study of the relation of the following topics to structure and reactions of organic compounds: Bonding, stereochemistry, acid-base concepts, physical organic chemistry, reactive species. Prerequisite: Chemistry 2420, 3340 (or 4465 and permission of instructor).

Chemistry 4333, **Spectroscopy**. (3-0) The study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisite: Chemistry 2420, 3340 (or 4465 and permission of instructor).

Chemistry 4336-5336, **Methods of Techniques of Physical Science**. (2-4) This course includes methods of instruction and laboratory techniques of topics recommended by the Texas Education Agency to be included in a physical science course in public schools. See Physics 4336-5336.

Page 282 - Add: Chemistry 4375-5375, **Biochemistry** insert lecture/laboratory hours (3-0).

Department of Mathematics and Computer Science

Page 283, 284, 285, 286 - Change: CHANGE MATHEMATICS 2317 to MATHEMATICS 2417; MATHEMATICS 2371, 2372 CHANGE TO MATHEMATICS 2471, 2472. (value change)

Page 287 - Change:

Mathematics 1311, **Basic Mathematics**. (3-0) A preparatory course for college algebra. Topics include linear equations and inequalities expressions exponents and radicals, quadratics, and word problems. The course is designed for students who have graduated from high school with no more than the minimum mathematics requirements or for students who have been away from mathematics for a number of years. **This course may not be used for major or minor credit in mathematics.** (description change)

Mathematics 1315, **College Algebra**. (3-0) A course covering linear equations, quadratic equations, inequalities, word problems, functions, logarithms, and system of equations. Prerequisite: Mathematics ACT score of at least 19 (SAT-435); or a mathematics placement score of at least 8, or Mathematics 1311 with a grade of at least "C." (description change - add prerequisite)

Mathematics 1317, **Plane Trigonometry**. (3-0) A course covering trigonometric functions, right triangles, radian measure, graphs of trigonometric functions, trigonometric identities, including multiple and half-angle identities, inverse trigonometric functions, trigonometric equations, oblique triangles, and complex numbers. A student may receive credit for only two of Mathematics 1317, 2417, and 2363. Prerequisite: Mathematics 1315 with a recommended grade of at least "C," or consent of the department chair. (description change - add prerequisite)

Page 288 - Change:

Mathematics 2317, **Pre-Calculus** to Mathematics 2417, **Pre-Calculus**. (4-0) A survey of functions, trigonometry, and analytic geometry to prepare students for calculus. *Prerequisite: High school trigonometry with a grade of "B" or better, and either a Mathematics ACT score of at least 24 (SAT-500) or Mathematics 1315 with a recommended grade of at least "B." (value and description change)

Mathematics 2363, **Analytic Geometry**. (3-0) A course covering lines, circles, parabolas, ellipses, hyperbolas, translations, rotations, polar coordinates, and vectors. A student may receive credit for only two of Mathematics 1317, 2417, and 2363. *Prerequisite: Mathematics 1317 with a recommended grade of at least "C," or concurrent enrollment in Mathematics 1317 and consent of the department chair. (description change)

Mathematics 2371, 2372, **Differential and Integral Calculus** to Mathematics 2471, 2472, **Calculus I and II**. (4-0) *Prerequisite: Mathematics 1317 and 2363 with grades of at least "C;" or Mathematics 2417 with a grade of at least "C;" or consent of the department chair. (value and description change)

Mathematics 3305, **Introduction to Probability and Statistics**. *Prerequisite: Mathematics 2472.

*Change in prerequisite

Mathematics 3323, **Differential Equations**. (3-0) A course covering solutions to the more common types of ordinary differential equations, especially those of first and second order, with emphasis on geometrical and physical interpretations. *Prerequisite: Mathematics 2472 with a grade of at least "C." (description change)

Page 289 - Change:

Mathematics 3348, **Operations Research** to Mathematics 3348, **Operations Research I**. (3-0) This course provides a broad view of deterministic operations research techniques. Topics include dynamic programming, linear and integer programming, deterministic inventory models, and sequencing problems. See Computer Science 3348. Prerequisite: Mathematics 1315 with a grade of "C" or better. (title and description change- Add prerequisite.)

Mathematics 3373, **Multivariable Calculus** to Mathematics 3373, **Calculus III**. (3-0) A course covering sequences and series, vectors, functions of several variables, partial derivatives, multiple integrals, line and surface integrals, and applications. *Prerequisite: Mathematics 2472 with a grade of at least a "C." (title and description change)

Mathematics 3375, **Engineering Mechanics**. (3-0) A course covering statics, using a vector approach to mechanics. The course is designed to satisfy the requirements of engineering schools. *Prerequisite: Physics 1430 and credit or concurrent enrollment in Mathematics 2472. (description change)

Mathematics 3377, **Topics in Linear Algebra**. *Prerequisite: Mathematics 2472 with a grade of at least "C."

Mathematics 3380, **Advanced Calculus** to Mathematics 3380, **Advanced Calculus I**. (3-0) A course covering the introduction to the theory of real functions. Topics include limits, continuity, and derivatives. *Prerequisite: Mathematics 2472 with a grade of at least a "C." (title and description change)

Mathematics 3428, **Introduction to Numerical Analysis With Computer Applications**.
*Prerequisite: Mathematics 2472.

Mathematics 4302, **Materials and Methods in Arithmetic for Elementary Teachers**. (3-0) Topics in arithmetic, primarily for those preparing to teach arithmetic in the elementary grades; beginning number concepts and counting and problem solving. This course can be used only as an elementary certificate requirement and may not be counted for major or minor credit in mathematics. Should be taken before practice teaching. *Prerequisite: Mathematics 1311 or 1315 with a grade of "C" or better. (description change)

Mathematics 4304, **Mathematical Understandings**. (3-0) A course covering number bases and the basic concepts underlying algebra, geometry, and trigonometry. Must be taken before student teaching and can be used only as a certificate requirement. Unless specified, this course may not be counted for major or minor credit in mathematics. *Prerequisite: Mathematics 2472 and credit or concurrent enrollment in Mathematics 3315. (description change)

Mathematics 4305, **Probability and Statistics**. (3-0) A course covering sample spaces, probability or events, binomial and multinomial distributions, random variables, normal approximations, statistical inference, and applications. This course is listed also as Computer Science 4305. *Prerequisite: Mathematics or Computer Science 3305 with a grade of at least a "C." (description change)

Page 290 - Change:

Mathematics 4307, **Introduction to Modern Algebra**. (3-0) to Mathematics 4307, **Modern Algebra**. (3-0) A course covering elementary set theory, structures, functions, and concepts of modern algebra. *Prerequisite: Mathematics 3325 or 3377 with a grade of at least a "C," or with consent of instructor. (title and description change)

Mathematics 4315, **Advanced Calculus**. (3-0) to Mathematics 4315, **Advanced Calculus II**. (3-0) A course covering Riemann-Stieltjes integration, sequences and series of functions, power series, and associated topics in real analysis. Students are required to prove theorems and understand proofs of theorems. (title and description change)

Mathematics ** 4336, **Undergraduate Topics in Applied Mathematics**. (3-0) to Math 4336, **Topics in Applied Mathematics**. (3-0) Selected topics including Laplace transforms, complex variables, advanced calculus for applications, calculus of variations, integral equations, intermediate differential equations, vector analysis, etc. *Prerequisite: Consent of instructor. Change footnote to read: **May be repeated once with different emphasis for additional credit. (title and description change)

*Change in prerequisite

**Change in footnote

Mathematics 4338, **Mathematical Modeling**. (3-0) A course covering techniques used in the building and analysis of mathematical models. Examples will be taken from a variety of fields including the physical sciences, engineering and economics. See Computer Science 4338. *Prerequisite: Mathematics or Computer Science 2328 and Mathematics 2472. (description change)

Mathematics 4372, **Topics in Mathematics Education**. (3-0) A study of individual problems related to the area of elementary and secondary school mathematics. This course can be used only as a certificate requirement or as a free elective and may not be counted for major or minor credit in mathematics without the consent of department chair. (description change)

Page 291 - Change:

Computer Science 1308, **Computers and Society**. (3-0) A study of the uses of computers and their effects on society. Some programming in a procedure-oriented language. An introductory course assuming no previous computer or other technical background. **May not be taken for major or minor credit in computer science without consent of department chair.** (description change)

Computer Science 1318, **Fundamentals of Computer Mathematics and Flowcharting**. (3-0) An introductory technical course for potential majors in computer science. Logical organization and operation of a computer; development and flowcharting of algorithms programming in a structured language; number systems and data representations; Boolean algebra; combinational digital circuits. (description change)

Computer Science 2318, **Assembly Language**. (3-0) A course covering the organizations and operation of digital computers, assembly language programming including addressing, looping, logic, shifting and masking operations, macros, subroutines, co-routines, arithmetic algorithms, recursion and input-output programming. *Prerequisite: Computer Science 1318 and 2308, or consent of instructor. (description change)

Add: Computer Science 2488, **Introductory Programming and Applications**. (3-2) An introduction to high level programming languages emphasizing techniques common to the sciences. Topics are selected from numerical approximation, linear systems, statistics and simulation. **This course may not be counted for major or minor credit in computer science without consent of department chair.** Prerequisite: Mathematics 1315.

Change: Computer Science 3305, **Introduction to Probability and Statistics**, *Prerequisite: Mathematics 2472.

Computer Science 3348, **Operations Research** to Computer Science 3348, **Operations Research I**. (3-0) This course provides a broad view of deterministic operations research techniques. Topics include dynamic programming, linear and integer programming, deterministic inventory models, and sequencing problems. See Mathematics 3348. Prerequisite: Mathematics 1315 with a grade of "C" or better. (title and description change- add prerequisite)

Computer Science 3358, **Data Structures** (3-0) A course covering data structures and file handling techniques in a high level language. *Prerequisite: Computer Science 2318 or consent of instructor.

Add: Computer Science 3388, **Operations Research II**. (3-0) This course provides a broad view of probabilistic operations research techniques. Topics include decision theory, game theory, PERT/CPM, queuing theory and probabilistic inventory models. Prerequisite: Mathematics or Computer Science 2328 or equivalent.

Computer Science 3398, **Software Engineering**. (3-0) The study of software design, implementation, and validation techniques through team projects. Structured analysis, programming style and project documentation are emphasized in software projects large enough to give a group meaningful work experience.

Page 292 - Change: Computer Science 3428, **Introduction to Numerical Analysis with Computer Applications**. (3-2) *Prerequisite: Mathematics 2472.

Change: Computer Science 4305, **Probability and Statistics**. (3-0) A course covering sample spaces, probability of events, binomial and multinomial distributions, random variables, normal approximations, statistical inference, and applications. See Mathematics 4305. (description change) *Prerequisite: Mathematics or Computer Science 3305 with a grade of at least "C."

Computer Science 4338, **Mathematical Modeling**. (3-0) A course covering techniques used in the building and analysis of mathematical models. Examples will be taken from a variety of fields including the physical sciences, engineering, and economics. See Mathematics 4338. (description change) *Prerequisite: Mathematics or Computer Science 2328 and Mathematics 2472.

*Change in prerequisite

Computer Science 4348, **Programming for Teachers.** (3-0) A course covering the BASIC programming language and the use of the computer in the secondary school as a tool for problem solving. This course can be used only as a certificate requirement in computer science. (description change only)

Computer Science 4358, **Computers in Education.** (3-0) A course covering an introduction to computers in education, using some programming with the BASIC computer language. The course surveys the uses of the computer in secondary schools in the areas of mathematics, science, business, and administration. This course may be used only as a certificate requirement in computer science. **Add Prerequisite:** Computer Science 4348.

Department of Physics

Page 297 - Delete: Physics 4335-5335, **Survey of Air Pollution Problems.**

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under, any program or activity sponsored or conducted by Southwest Texas State University on any basis prohibited by applicable law, including, but not limited to, race, color, national origin, religion, sex or handicap.