Students not yet meeting departmental admissions requirements may elect to be advised by the general engineering advising office or the department of their intended specialization.

While the College provides advising services to assist students with academic planning, the responsibility for seeing that all graduation requirements are met rests with the students. A copy of the Student Academic Support System (SASS) report may be had upon request.

The College of Engineering requires all undergraduates to apply for graduation the semester prior to the anticipated graduation term. Necessary forms and instructions can be obtained in the Engineering Advising Office.

Departments & Programs

The supervision of the academic programs for the College is the function of the six administrative departments together with several coordinators. The departments are responsible for the professional programs in engineering and engineering science. Each department is responsible for programs, faculty, laboratories and students assigned to it.

Chemical Engineering

This department offers coursework and study in all areas fundamental to Chemical Engineering. Topics included are thermodynamics, fluid flow, heat transfer, mass transfer, separation processes, chemical reactors, instrumentation and process control, economics optimization, computer methods, computer aided design techniques, and process plant design. These courses, together with mathematics, physics, chemistry, other interdisciplinary engineering fundamentals, English, and liberal arts courses, provide the basis for long range professional growth. Because of the many professional areas available for employment to the chemical engineer, the students are also required to take a number of electives from areas such as biotechnology, materials, and environmental engineering. These electives are designed to broaden the student’s experience, and therefore, the employment possibilities of our graduates. The department administers the Bachelor of Science in Chemical Engineering (B.S.Ch.E.), the Master of Science in Chemical Engineering (M.S.Ch.E.), the Master in Chemical Engineering (MCHE), the Master of Engineering (M.E.), the Master of Science in Engineering (MSE), and the Doctor of Philosophy (Chemical and Engineering Science) (Ph.D.) degrees. The Chemical Engineering Department also offers a sequence of courses in Chemical Engineering Science, biotechnology and biomedical engineering.

A sequence of courses in the engineering aspects of biotechnology is currently available within the Chemical Engineering program. Topics include applied microbiology, fermentation technology, and genetic engineering. Biomedical Engineering is a highly interdisciplinary program, drawing from all engineering disciplines, biology, physical sciences, biomedical and clinical sciences. An undergraduate Certificate in Biomedical Engineering is available to students in all areas of engineering. This Certificate is designed with two main objectives: 1) to prepare interested students for admission into medical school and 2) to prepare students for graduate work in either Biomedical Engineering, other engineering disciplines, or the Biomedical Sciences. Opportunities for students to gain research experience exist within the College of Engineering and the Health Sciences Center.

Please see the certificate programs section of this catalog for more information on these programs.

Civil and Environmental Engineering

This department offers course work and study pertinent to Civil Engineering, Engineering Mechanics, Material Science, and Environmental Engineering. Areas of concentration are structural engineering, engineering mechanics, geotechnical engineering, transportation engineering, water resources engineering, materials and corrosion engineering, and environmental engineering. The department has a policy of mandatory academic advising of students for each school term. The department offers the undergraduate degree, Bachelor of Science in Civil Engineering (BSCE) and the following graduate degrees: Master of Science in Civil Engineering (MSCE), Master of Science in Environmental Engineering (MSEV), Master of Civil Engineering (MCE), Master of Engineering (ME), Master of Environmental Engineering (MEVE), and Doctor of Philosophy (Ph.D.).

Computer Science and Engineering

This department offers coursework and study in all areas fundamental to Computer Science, Computer Engineering, and Information Systems. Topics dealt with are computer architecture and hardware design, software engineering, computer systems organization, operating systems, algorithms and data structures, computer graphics, user interface, computer networks, database systems, theory of computation and artificial intelligence.

The Department administers the baccalaureate degree programs in Computer Science, Computer Engineering and Information Systems; Master of Science degree programs in Computer Science and in Computer Engineering; and Ph.D. program in Computer Science and Engineering. Our research areas of faculty concentration are 1) computer architecture and VLSI design/testing, 2) artificial intelligence and expert systems, 3) graphics/image processing/computer vision, 4) database, 5) networks.

Supporting facilities available to students in the Department include several microprocessor and design laboratories for hardware-oriented studies, personal computer laboratories for general use in programming assignments, and networked SUN and DEC workstations for use by majors. The Department also runs a research-oriented network consisting of an Intel Hypercube, a number of SUN, DEC, and IBM workstations, and special purpose image and graphics processors. In addition, the Department has access to a large IBM mainframe facility run by the University Computing Center.

Electrical Engineering

This department offers study in all areas fundamental to Electrical Engineering and the electrical sciences: circuit analysis and design, electronics, communications, electromagnetics, controls, solid state, systems analysis, digital circuit design, etc. Basic concepts are augmented with well-equipped laboratories in networks, electronics, digital systems, microwave techniques and communications. In addition, a general purpose computer facility, a microprocessor laboratory and a microelectronics fabrication laboratory are available to undergraduate and graduate students. The department administers the Bachelor of Science in Electrical Engineering (B.S.E.E.) degree program, as well as the Master of Science in Electrical Engineering (M.S.E.E.) program which are also available to evening and off-campus students. As applicable, the department administers the M.E., M.S.E.S. and the Ph.D. in Electrical Engineering programs.

Industrial and Management Systems Engineering

This department offers study pertinent to the design, evaluation and operation of a variety of industrial systems, ranging from the analysis of public systems to the operation of manufacturing plants. Topics include production planning and control, production and plant design, applied statistics, operations research, human factors and productivity, manufacturing, and automation. The department has excellent laboratory facilities which support class projects and research in microcomputer applications, computer-aided manufacturing, automation, and applications of robotics. The department administers the Bachelor of Science in Industrial Engineering (B.S.I.E.) degree program, as well as the Master of Science in Industrial Engineering (M.S.I.E.), Master of Industrial Engineering (M.I.E.) and the Master of Engineering of Industrial Management programs which are available through the Master of Science in Engineering Management (M.S.E.M.) program. The department also administers the Industrial option in the M.S.E., M.E. and M.S.E.S. programs, as well as the manufacturing option in the M.S.E. program.
Mechanical Engineering

The department offers courses leading to the degrees of Bachelor of Science in Mechanical Engineering (B.S.M.E.), Master of Science in Mechanical Engineering (M.S.M.E.), Master of Mechanical Engineering (M.M.E.), Master of Science in Engineering (M.S.E.), and Doctor of Philosophy (Ph.D.). Coursework includes basic science and mathematics, thermal and fluid sciences, solid mechanics, dynamics, machine design, vibrations, instrumentation and automatic control.

Graduates of this program are employed in research, design, production, marketing, service, installation (contracting), maintenance and operation in such industries as mining, petroleum, paper, food, power, manufacturing, air-conditioning, defense systems, aerospace, data processing, communications, and automotive.

Laboratories are available for basic instrumentation, thermal and fluid sciences, solid mechanics, data acquisition and control, CAD/CAE, vibrations, and aerodynamics.

Students pursuing the B.S.M.E. degree are required to take the Fundamentals of Engineering examination as the first step towards professional engineering registration.

Engineering Core

Both the four-year and five-year curricula of the College of Engineering Bachelor of Science programs are founded on a common core of coursework which is required of all students. This coursework is designed to give each student a thorough foundation of knowledge on which specialization studies and a professional career can be based. Emphasis is placed on five key elements: development of communication skills, familiarity with the social sciences and humanities, a solid base in science and mathematics, a strong foundation in basic engineering sciences and applications and design experience in a field of specialization.

Each degree-granting department has developed a list of courses to provide key elements for the degree offered. While the specific courses will vary slightly from one department to another, the hours in each category will be approximately as follows:

- Non-technical Courses: 34 Sem. Hrs.
  - (Social Sciences, Humanities, Communications)

  - (Micro)

  - Department Specialization: 31 Sem. Hrs.
  - 136 Sem. Hrs

Special requirements exist for Chemical Engineering, Computer Engineering, Computer Science, Information Systems. Students selecting these fields should make sure they familiarize themselves with these. Detailed information can be obtained from the responsible department or the College's Advising Office.

1. Non-Technical Requirements

All students are required to take 45 semester hours to satisfy the complete liberal arts requirements. Thirty-six (36) semester hours will satisfy the general education course requirements and 9 semester hours will satisfy the exit requirements. These requirements are distributed as follows:

- General Education Requirements* Semester Hours
  - English Composition: 6
  - Quantitative Methods: 6
  - Natural Sciences: 6
  - Social Sciences: 6
  - Historical Perspectives: 6
  - Fine Arts: 3
  - African, Latin American, Middle Eastern or Asian Perspectives: 3

- Exit Requirements* (Must be taken at USF)
  - Major Works and Major Issues: 6
  - Literature and Writing: 3

*Courses may be certified in more than one area, but students may use each course in only one (1) area.

Courses in the liberal arts requirements should incorporate the following components whenever they are relevant to the specific discipline: the learning skills of conceptual thinking, analytical thinking, creative thinking, written expression, oral expression, and the dimensions of values and ethics, international perspectives, environmental perspectives, race and ethnicity, and gender. When warranted by the subject matter, each course must incorporate consideration of at least one of the dimensions and one of the thinking skills to meet the liberal arts requirements.

Students should ensure that courses proposed for the liberal arts have sufficient depth and breadth. These courses will share the substantive rigor and intellectual challenge of courses offered for major credit, with the specific feature of offering an integrative perspective of the discipline and its relationship to academia as a whole. Additionally, such courses will encourage majors to interact with students from other disciplinary backgrounds.

2. Mathematics and Science Core Requirements

The student with a satisfactory high school preparation must take 35 credit hours of mathematics and science coursework. (Some credit towards this core requirement can be obtained by passing applicable CEEB Advanced Placement Tests or CLEP Subject Examinations.)

Mathematics: The coursework consists of a Calculus for Engineers sequence (or a calculus sequence of equivalent level), Differential Equations, and additional hours of designated courses supportive of the student's selective field of specialization, as specified by the department. In the science coursework students must take the Physics with Calculus sequence and the General Chemistry sequence.

Students whose high school preparation is insufficient to enter the Calculus for Engineers are required to take supplementary algebra and trigonometry prior to being considered for acceptance into the College.

3. Engineering Core Requirements

The prospective engineering major must take a minimum of 35 credit hours of engineering core (foundation) coursework drawn from the major disciplines. This coursework is designed to equip the student with a sound technical foundation for later, more advanced specialized coursework and the eventual formation of professional judgment. This coursework includes introductory studies in such areas as engineering analysis and computation, statistics, electrical engineering principles, thermodynamics, statics, dynamics, fluids, and properties of materials.

All but 6 credit hours of the engineering core are common to all areas of the Bachelor of Science in a Designated Engineering Field degree programs. The remaining 6 credit hours of coursework must be chosen with the concurrence of the departmental adviser to fit the field selected by the student. Details on this selection are available in the departmental office of the field selected, or in the College's Advising Office.

FOUR-YEAR PROGRAM -- BACHELOR OF SCIENCE IN DESIGNATED ENGINEERING FIELD DEGREE

These engineering degrees are awarded upon successful completion of a program consisting of the required three areas of core coursework—minimum of 101 credit hours—which are described above, and an additional 35 credit hours of coursework in a designated field of specialization. Details covering specific fields are available on request from the responsible department, or from the College's Advising Office.

Programs are offered in the following disciplines of Engineering:
# 1. Chemical Engineering

Students pursuing the Bachelor of Science in Chemical Engineering take coursework in advanced chemistry, thermodynamics, fluids, heat, and mass transfer, separation processes, reacting systems, instrumentation, and control. Students must also satisfactorily complete a design project as part of their program. Students seeking the biotechnology/biomedical certificate are also required to take additional courses in general biology, microbiology, and biochemistry. Special characteristics of the Chemical Engineering curriculum make it imperative that the students retain close contact with their advisor.

Students completing this program normally initiate their careers in process/manufacturing industries. Chemical engineers are found in administrative, technical, and research positions in these industries. Main products of these industries are petrochemicals, polymers, fibers, natural and synthetic fuels, electronic materials, fertilizers, pharmaceuticals, etc.

Solution of modern societal and scientific problems often require the use of chemical engineering skills. A course sequence for chemistry majors, (ECH 3702, ECH 4123C and ECH 4415C), as well as physics majors, (ECH 3702, ECH 3264C, and ECH 4265C), is suggested. These courses will add a strong chemical engineering science background to those degrees. Chemical Engineering students are expected to have access to an IBM compatible personal computer during their last two years of study. Those who do not own one will be severely disadvantaged. The course Chemical Engineering Calculus is required for all non-transfer students. Transfer students are encouraged to take this course. The USF course will first be offered during the spring semester of 2000.

The schedule which follows indicates how a serious student who can devote full time to coursework can satisfy requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan a slower pace.

**Bachelor's Curriculum - Chemical Engineering**

This program is under revision. Courses indicated with XXXX rather than course numbers will be submitted for approval during 1998-99. See your academic advisor for additional information.

<table>
<thead>
<tr>
<th>Semester I</th>
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<tbody>
<tr>
<td>ENC 1101 Freshman English I</td>
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<tr>
<td>MAC 2281 Engineering Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2041 General Chemistry I</td>
<td>3</td>
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<tr>
<td>EGN 3300B Foundations of Engineering</td>
<td>3</td>
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<tr>
<td>*Historical Perspectives Elective</td>
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<td>*Fine Arts Elective</td>
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<tr>
<td>CHM 2046 General Chemistry II</td>
<td>3</td>
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<td>CHM 2045L General Chemistry I Lab</td>
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<tr>
<td>PHY 2048 General Physics I</td>
<td>3</td>
</tr>
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**Summer Term**

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<tr>
<td>MAC 2283 Engineering Calculus III</td>
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<tr>
<td>EGN 3311 Statics</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046L General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHY 2049 General Physics II</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MAP 2302 Differential Equations</td>
<td>3</td>
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<tr>
<td>EGN 3373 Electrical Systems I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 2210 Computer Tools for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343 Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3443 Statistics</td>
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<table>
<thead>
<tr>
<th>Semester IV</th>
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<tbody>
<tr>
<td>EGN 4450 Introduction to Linear Systems</td>
<td>2</td>
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<tr>
<td>EGN 3365 Materials</td>
<td>3</td>
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<tr>
<td>ECH 3702 Instrument Systems I</td>
<td>4</td>
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<tr>
<td>ECH 3023 Introduction to Process Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ECH XXXX Chemical Engineering Calculus</td>
<td>3</td>
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**Semester V**

<table>
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<tr>
<th>Course</th>
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<tr>
<td>ECH 3264C Transport Processes I</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4123C Phase &amp; Chemical Equilibria</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2210 Organic Chemistry I</td>
<td>2</td>
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<td>CHM 2210L Organic Chemistry I Lab</td>
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<tr>
<td>CHM 4412 Physical Chemistry III</td>
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**Semester VI**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ECH 4265C Transport Processes II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2211 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4605 Strategies of Process Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENC 4931 Communication for Engineers</td>
<td>3</td>
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<tr>
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**Semester VII**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ECH 4323C Automatic Controls I</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4415C Reacting Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECH 4244L Chemical Engineering Lab II</td>
<td>2</td>
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<tr>
<td>MW-MI (Engineering)</td>
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<tr>
<td>**Chemistry Elective</td>
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**Semester VIII**

<table>
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<th>Course</th>
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<tr>
<td>ECH 4615C Plant Design and Optimization</td>
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<tr>
<td>Technical Electives</td>
<td>2</td>
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<tr>
<td>MW-MI (Non-Engineering)</td>
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</tr>
<tr>
<td>*Historical Perspectives Elective</td>
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<tr>
<td>*Social Science Elective</td>
<td>3</td>
</tr>
<tr>
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</tr>
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</table>

**Approved General Education Requirements**

*Not from Chem 2XXX, 3400, 3401, 3402, 4070, 4905, 4932, 4970

**Prerequisites (State Mandated Common Prerequisites)**

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

**Math**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MAC 2281</td>
<td>MAC 2311 (3)</td>
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<tr>
<td>MAC 2282</td>
<td>MAC 2312 (3)</td>
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<tr>
<td>MAC 2283</td>
<td>MAC 2313 (3)</td>
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**Differential Equations**

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<td>MAP 2302</td>
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**Chemistry**

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<tbody>
<tr>
<td>CHM 2041</td>
<td>CHM 1045 (3)</td>
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<tr>
<td>CHM 2045L</td>
<td>CHM 1045L (1)</td>
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<tr>
<td>CHM 2046</td>
<td>CHM 1046 (3)</td>
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<tr>
<td>CHM 2048L</td>
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**Physics**

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<th>Course</th>
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<td>PHY 2049</td>
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<tr>
<td>PHY 2049</td>
<td>PHY 2049L (3)</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>PHY 2049L (3)</td>
</tr>
</tbody>
</table>
### Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

### 2. Civil and Environmental Engineering

Students pursuing the Bachelor of Science in Civil Engineering program take designated engineering mechanics, civil engineering, and environmental engineering course work. This course work is supplemented by electives and courses in one of the following areas of concentration:

- **a. Environmental Engineering - courses in water and wastewater treatment, air pollution control, and environmental unit operations and unit processes.**
- **b. Water Resources - courses in water resources engineering, environmental unit operations, and air pollution control.**
- **c. Geotechnical/Transportation engineering - courses in soil mechanics, transportation, matrix structural analysis, cement and concrete design, and air pollution control.**
- **d. Materials - courses in materials and corrosion.**
- **e. Structural engineering - courses in structural engineering and materials.**

As a culminating design experience, all students take a Capstone design course relevant to their respective areas of concentration. To maintain high academic standards, only 2 D grades in engineering courses can be used to fulfill graduation requirements.

Students completing the program may enter the professor as engineers in the civil, structural, geotechnical, transportation, water resources, environmental, hydraulics, or materials discipline. All of these disciplines share the need for knowledge in the areas of engineering mechanics, civil engineering, material science, and environmental engineering. Through choice of the proper area of concentration, a student has the opportunity to channel academic studies specifically towards his/her career choice.

Graduates of the program may commence their engineering careers in either industry, in engineering consulting firms, or in public service at the federal, state, or local level. Initial assignments may include planning, design and implementation of water resources systems; planning and design of transportation and housing systems; regional planning, design, and management for abatement of air, water, and solid waste pollution problems; design of bridges and single and multistory structures; and supervision of construction projects.

The schedule which follows indicates how a serious, well prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace. An additional graduation requirement is that graduating seniors must take the Fundamentals of Engineering Examination.

### Bachelor's Curricula - Civil Engineering Option

<table>
<thead>
<tr>
<th>Semester I</th>
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<tbody>
<tr>
<td>ENC 1101 Freshman English I</td>
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<tr>
<td>MAC 2251 Engineering Calculus I</td>
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<tr>
<td>CHM 2041 General Chemistry I</td>
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<td>EGN 4930 Foundations of Engineering</td>
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<thead>
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<td>ENC 1102 Freshman English II</td>
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<td>MAC 2262 Engineering Calculus II</td>
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<tr>
<td>PHY 2048 General Physics I</td>
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<td>COP 2202 (3)</td>
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<td>EGS 1113 Introduction to Design Graphics</td>
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<table>
<thead>
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<tbody>
<tr>
<td>CEG 4011 Soil Mechanics</td>
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<tr>
<td>EGN 3311 Statics</td>
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<td>EGN 3353 Fluid Mechanics</td>
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<td>EGN 3331 Mechanics of Materials</td>
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<table>
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<td>EGN 3344 Engineering Statistics</td>
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<td>EGN 3365 Materials</td>
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<td>MAC 2283 Engineering Calculus II</td>
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<td>EGN 3331 Mechanics of Materials</td>
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<tr>
<td>EGN 3331L Mechanics of Materials Lab</td>
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</tr>
<tr>
<td>ENC 4931 Communication for Engineers</td>
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<thead>
<tr>
<th>Semester V</th>
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<tbody>
<tr>
<td>ENC 4931 Communication for Engineers</td>
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<tr>
<td>ENC 4931 Communication for Engineers</td>
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<table>
<thead>
<tr>
<th>Semester VI</th>
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<tbody>
<tr>
<td>EGN 3353 Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3331 Mechanics of Materials</td>
<td>3</td>
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<tr>
<td>ENC 4931 Communication for Engineers</td>
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<table>
<thead>
<tr>
<th>Semester VII</th>
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<tbody>
<tr>
<td>EGN 3353 Fluid Mechanics</td>
<td>3</td>
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<tr>
<td>EGN 3331 Mechanics of Materials</td>
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<tr>
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<td>ENC 4931 Communication for Engineers</td>
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<table>
<thead>
<tr>
<th>Semester VIII</th>
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<tbody>
<tr>
<td>ENC 4931 Communication for Engineers</td>
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<tr>
<td>ENC 4931 Communication for Engineers</td>
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<table>
<thead>
<tr>
<th>Water Resources</th>
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<tbody>
<tr>
<td>ENV 4502 Environmental Unit Operations</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4101 Air Pollution Control</td>
<td>3</td>
</tr>
<tr>
<td>CWR 4202 Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>ENC 4931 Communication for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENC 4931 Communication for Engineers</td>
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</table>
## Geotechnical/Transportation

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CEG 4012</td>
<td>Soil Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4005</td>
<td>Transportation Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>CGN 4851</td>
<td>Concrete Construction Materials</td>
<td>3</td>
</tr>
<tr>
<td>CES 4141</td>
<td>Matrix Structural Analysis</td>
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</tr>
<tr>
<td>ENV 4101</td>
<td>Air Pollution Control</td>
<td>3</td>
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## Materials

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>EGN 4366</td>
<td>Materials Engineering II</td>
<td>3</td>
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<tr>
<td>EMA 4324</td>
<td>Corrosion of Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>CGN 4851</td>
<td>Concrete Construction Materials</td>
<td>3</td>
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## Structural

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CES 4141</td>
<td>Matrix Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CES 4820</td>
<td>Timber &amp; Masonry Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4561</td>
<td>Computer Aided Structural Design</td>
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</tr>
<tr>
<td>CGN 4851</td>
<td>Concrete Construction Materials</td>
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</tr>
<tr>
<td>EMA 4324</td>
<td>Corrosion of Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td><strong>CES 4720</strong></td>
<td>Capstone Structural/Materials Design</td>
<td>3</td>
</tr>
<tr>
<td><strong>CES 4740</strong></td>
<td>Capstone Structural/Geotechnical Design</td>
<td>3</td>
</tr>
</tbody>
</table>

*If not used to satisfy Capstone Design requirements*

## Civil Engineering Capstone Design Requirements

A student must complete the capstone design course in his/her area of concentration.

## Water Resources

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CWR 4821</td>
<td>Capstone Water Resources Design</td>
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## Geotechnical/Transportation

<table>
<thead>
<tr>
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<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEG 4850</td>
<td>Capstone Geotechnical/Transportation Design</td>
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## Materials

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 4720</td>
<td>Capstone Structural/Materials Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4740</td>
<td>Capstone Structural/Geotechnical Design</td>
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</table>

## Environmental Engineering Concentration Within Civil Engineering

### Semester I

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2281</td>
<td>Engineering Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>EGS 1113</td>
<td>Introduction to Design Graphics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 4930</td>
<td>Foundations of Engineering</td>
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### Semester II

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC 1102</td>
<td>Freshman English II</td>
<td>3</td>
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<tr>
<td>MAC 2282</td>
<td>Engineering Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>General Physics I Lab</td>
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<tr>
<td><em>Historical Perspectives Elective</em></td>
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### Summer Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 2210</td>
<td>Computer Tools for Engineers</td>
<td>3</td>
</tr>
<tr>
<td><em>Social Science Elective</em></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><em>Historical Perspectives Elective</em></td>
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### Semester III

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAC 2283</td>
<td>Engineering Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>General Physics II Lab</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2200</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td><em>Social Science Elective</em></td>
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### Semester IV

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
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</table>

## Prerequisites (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman college. Some courses required for the major may also meet General Education Requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferrable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

### Math

- Calculus
  - MAC 2210  MAC 2211  MAC 2211L (3)
  - MAC 2220  MAC 2220L  MAC 2220L (3)
  - MAC 2230  MAC 2230L  MAC 2230L (3)

### Differential Equations

- MAP 2302  MAP 2302L (3)

### Chemistry

- General
  - CHM 2041  CHM 2041L  CHM 2041L (3)
  - CHM 2046  CHM 2046L  CHM 2046L (1)

### Physics

- MAC 2210  MAC 2211  MAC 2211L (3)
  - MAC 2220  MAC 2220L  MAC 2220L (3)
  - MAC 2230  MAC 2230L  MAC 2230L (3)

- General
  - CHM 2041  CHM 2041L  CHM 2041L (3)
  - CHM 2046  CHM 2046L  CHM 2046L (1)

- MAC 2210  MAC 2211  MAC 2211L (3)
  - MAC 2220  MAC 2220L  MAC 2220L (3)
  - MAC 2230  MAC 2230L  MAC 2230L (3)
This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

**Engineering Admissions Requirements**
Transfer students must have completed the equivalent USF Engineering Calculus Sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

### 3. Computer Science and Engineering

Three undergraduate degree tracks are offered within Computer Science and Engineering. These tracks are Computer Engineering, Computer Science and Information Systems, which leads to the Bachelor of Science in Computer Engineering, in Computer Science and in Information Systems respectively.

The Computer Engineering track emphasizes the application of engineering principles to the design of computer hardware and software. While all department tracks provide coverage of both computer hardware and software, this track allocates additional time to issues of computer architecture and hardware design. Students in this program also acquire a broad background in engineering science through the study of the engineering core.

The Computer Science track focuses on the theory of computation and computer organization. Additional coursework is required in programming languages, algorithms, software engineering, and a wide range of electives supplement the core coverage of hardware and software.

The Information Systems track combines a basic coverage of computer science and hardware with a core of business related courses and additional coursework in areas such as networks and database. The emphasis in this track is on the application of computing.

Graduates from these programs follow fruitful careers in either scientific or business applications of computers, as well as in the design of computer systems. They are often involved in the systems level definition of information processing complexes for both manufacturers of computers and for users. A wide and expanding variety of design and applications opportunities characterize this field. The rapid growth and continual change within this field makes it essential for students to acquire a broad foundation in applied mathematics and the physical sciences, and to develop communication skills and to become familiar with the domains of potential computer application in the Humanities and Social Sciences. Research and development opportunities as a computer scientist and engineer, often following graduate education, are present in the areas of computer architecture and VLSI design, artificial intelligence, software engineering, digital data communications, multimedia, robotics, database, networks, user interface, fault-tolerant computing and testing, computer graphics, image processing and computer vision, and simulation.

The schedules which follow indicate how a serious, well prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

**Bachelor of Science in Computer Science**

This program is under revision. Courses indicated with XXXX rather than course numbers will be submitted for approval during 1998-99. See your academic advisor for additional information.
The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

Math
- Calculus
  - MAC 2281 Engr, Calculus I 3
  - ENC 1101 Freshman English I 3
  - EGN 4930 Foundations of Engineering 3
  - *Social Science Elective 3
  - *Historical Perspectives Elective 3

Physics
- MAC 2282 Engr, Calculus II 3
- MAC 2283 Engr, Calculus III 3
- PHY 2048 Physics I 3
- PHY 2049 Physics II 3
- PHY 2048L Physics I Lab 1
- PHY 2049L Physics II Lab 1
- CHM 2041 General Chemistry I 3
- CHM 2045L General Chemistry Lab 1

Summer Term
- MAC 2283 Engr Calculus III 3
- PHY 2048 Physics II 3
- PHY 2048L Physics II Lab 1
- EGN 2210 Computer Tools 3

Semester III
- EGN 3311 Statics 3
- COT 3100 Intro. to Discrete Structures 3
- CDA XXXX Intro. to Discrete Structures 3
- COP XXXX Program Design 3
  - *Science Elective 3

Semester IV
- EEL 4851 Data Structures 3
- EGN 3443 Engineering Statistics 3
- EGN 3321 Dynamics 3
- EGN 3343 Thermodynamics 3

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

CDA XXXX Computer Logic Design 3
CDA XXXXL Computer Logic Design Lab 1

Semester V
- EGN 3371 Electrical Systems I 3
- EGN 3365L Materials I 3
- MAP 4302 Differential Equations 3
- CDA XXXX Computer Architecture 3
- Advanced CE Core 4

Semester VI
- EGN 4450 Linear Systems 2
- COP 4400 Analysis of Algorithms 3
- COP 4600 Operating Systems 3
- Advanced CE Core 3
  - *Science Elective 3
  - *Fine Arts Elective 3

Semester VII
- ENC 4931 Communications for Engineers 3
- Computer Engineering Elective 8
  - *Historical Perspectives Elective 3
  - *ALAMEA Perspective Elective 3

Semester VIII
- CIS 4910 Senior Project 2
- CIS 4250 Ethical Issues (MW/Ml) 3
- Computer Engineering Elective 8
- Major Works (out of College) 16
  - *Approved General Education Requirements

Prerequisites (State Mandated Common Prerequisites)
Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

Math
- Calculus
  - MAC 2281 Engr, Calculus I 3
  - MAC 2282 Engr, Calculus II 3
  - MAC 2283 Engr, Calculus III 3
  - MAC 2284 Advanced Calculus 3
  - Differential Equations
    - MAC 3311 (3)
    - MAC 3312 (3)
    - MAC 3313 (3)

Chemistry
  - General
    - USF
      - CIC
        - MAP 2302 (3)

Physics
  - USF
    - CIC
      - PHY 2048 (3)
      - PHY 2048L (1)

Fortran
  - USF
    - CIC
      - EGN 2210 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.
**Bachelor of Science in Information Systems Curriculum**

This program is under revision. Courses indicated with XXXX rather than course numbers will be submitted for approval during 1998-99. See your academic advisor for additional information.

### Semester I
- MAC 2281 or 2233: Calculus I (3)
- ENC 1101: Freshman English I (3)
- ACG 2021: Principles Accounting I (3)
- *Social Science Elective* (3)
- *Historical Perspective Elective* (3)

### Semester II
- MAC 2282 or 2234: Calculus II (4)
- ENC 1102: Freshman English II (3)
- PHY 2048 or 2053: Eng. Physics I (3)
- PHY 2048L or 2053L: Eng. Physics I Lab (3)
- EGN 2210: Computer Tools (3)

### Summer Term
- PHY 2049 or 2054: Eng. Physics II (3)
- PHY 2049L or 2054L: Eng. Physics II Lab (3)
- ECO 2023: Microeconomics (3)
- STA 2023: Intro to Statistics (3)

### Semester III
- CDA XXXX: Computer Organization (3)
- COT 3100: Intro Discrete Str (3)
- COP XXXX: Program Design (3)
- ECO 2013: Macroeconomics (3)

### Semester IV
- EEL 4651: Data Structures (3)
- MAN 3023: Principles of Management (3)
- *Historical Perspectives Elective* (3)
- *Science Elective* (3)
- *Social Science Elective* (3)

### Semester V
- COP 4600: Operating Systems (3)
- COP 4020: Comaprison of Prog. Lang. (3)
- EGN 4450: Linear Systems (3)
- ENC 4931: Communications for Engineers (3)
- EGN 3613: Engineering Economics (3)

### Semester VI
- EEL 4852: Data Base Systems (3)
- CEN 4020: Software Engineering (3)
- *Fine Arts Elective* (3)
- Information Systems Elective (3)

### Semester VII
- COT 4400: Analysis of Algorithms (3)
- EEL 4781: Dist. Proc. & Networks (3)
- *ALAMEA Perspective Elective* (3)
- Information Systems Elective (3)

### Semester VIII
- CEN XXXX: Software System Development (3)
- CIS 4250: Ethical Issues (3)
- Major Works (out of College) (3)
- Information Systems Elective (3)

*Approved General Education Requirements*

### Prerequisites (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

**Math**
- Calculus
  - USF: MAC 2233
  - MAC 2233 (3)
  - MAC 2234
  - MAC 2234 (3)

**Statistics**
- STA 2023
  - STA 2023 (3)

**Physics**
- General
  - USF: PHYS 2053
  - PHYS 2053 (3)
  - PHYS 2054
  - PHYS 2054 (3)
  - PHYS 2054L
  - PHYS 2054L (1)

**Science Electives (6)**

**Business Courses**
- USF: ACG 2001
  - ACG 2001 (3)

**Economics**
- ECO 2013
  - ECO 2013 (3)
- ECO 2023
  - ECO 2023 (3)

**Fortran**
- USF: EGN 2210
  - EGN 2210 (C/C)
- EGN 2210
  - COP 2202 (3)
- COP 2120
  - COP 2120 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

### Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

4. **Electrical Engineering**

Students pursuing the Bachelor of Science in Electrical Engineering program take designated coursework in network analysis, electronics, communications, electromagnetic theory, control systems, microelectronics and microprocessors. This coursework is supplemented by electives in many specialized areas of electrical engineering.

Students completing this program normally pursue industrial careers in the power, electrical, electronic, or information industries or in related governmental laboratories and public service agencies. The electrical graduate may apply his/her knowledge to such diverse areas as television, communications, remote guidance, sensing (of people, vehicles, weather, crops, etc.), automation, computer and information systems, electric power generation and transmission, electrically propelled transportation, etc. The graduate may do this by performing needed engineering functions related to research and development (often requires an advanced degree), design, production, operation, sales, or management of these products/services.

The schedule which follows indicates how a serious, well prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students
without a solid foundation and those who cannot devote full time to academics should plan on a slower pace. A minimum departmental GPA of 2.0 is required for graduation.

**Required for admissions to the Electrical Engineering Department**

**Approved General Education Requirements**

**Prerequisites (State Mandated Common Prerequisites)**

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

### Math
- **Calculus**
  - **USF** MAC 2211 (3)
  - **MAC** MAC 2211 (3)
  - **MAC** MAC 2212 (3)
  - **MAC** MAC 2213 (3)

### Differential Equations
- **MAP** MAP 2302 (3)
- **MAP** MAP 2302 (3)

### Chemistry
- **General**
  - **USF** CHM 2045 (3)
  - **USF** CHM 2301 (1)
  - **USF** CHM 2302 (3)

### Physics
- **USF** PHY 2048 (3)
- **USF** PHY 2048L (1)
- **USF** PHY 2049 (3)
- **USF** PHY 2049L (1)

### Fortran
- **USF** EGN 2210 (3)

These are limited access programs involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

**Engineering Admissions Requirements**

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

5. **Industrial and Management Systems Engineering**

Students pursuing the Bachelor of Science in Industrial Engineering degree program take designated, specialized courses in industrial processes, work analysis, production control, facilities design, operations research, human factors, computer simulation, quality control, and robotics and automation. This coursework is supplemented by engineering electives and comprehensive industrial engineering design projects.

Students completing this program are prepared for graduate study or for careers in a broad range of industries, business, and public service areas. The strength of industrial engineering lies, in part, in its breadth and the applicability of its common body of knowledge in a wide variety of enterprises. Students may be involved in traditional areas of manufacturing and production, state-of-the-art functions in automation and robotics. The same engineering principles are also applied to business organizations, service delivery systems, and governmental administration.
The schedule which follows indicates how a serious, well-prepared student who can devote full time to coursework can satisfy degree requirements in four academic years. Students without a solid foundation and those who cannot devote full time to academics should plan on a slower pace.

### Bachelor’s Curriculum

#### Industrial and Management Systems Engineering

| Semester I | ENC 1101 | Freshman English I | 3 |
| ENC 2281 | Engineering Calculus I | 3 |
| CHM 2041 | General Chemistry I | 3 |
| EGS 1113 | Introduction to Design Graphics | 3 |
| *Fine Arts Elective* | 3 |
| *Social Science Elective* | 3 |

| Semester II | ENC 1102 | Freshman English II | 3 |
| MAC 2282 | Engineering Calculus II | 3 |
| CHM 2046 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry I Lab | 1 |
| PHY 2048 | General Physics I | 3 |
| PHY 2048L | General Physics I Lab | 1 |
| EGN 2210 | Computer Tools for Engineers | 3 |

| Semester III | PHY 2049 | General Physics II | 3 |
| PHY 2049L | General Physics II Lab | 1 |
| MAC 2283 | Engineering Calculus III | 3 |
| EGN 3365L | Materials Engineering I | 3 |
| EGN 3311 | Statics | 3 |
| EGN 3443 | Engineering Statistics I | 3 |

| Semester IV | MAP 2302 | Differential Equations | 3 |
| EGN 3373 | Introduction to Electrical Systems I | 3 |
| EGN 3321 | Dynamics | 3 |
| EGN 3343 | Thermodynamics I | 3 |
| EGN 4930 | Foundations of Engineering | 3 |

**Summer Term**

| ENC 4931 | Engineering Communications | 3 |
| ENG 3613 | Engineering Economy | 3 |
| EGN 4450 | Introduction to Linear Systems | 2 |

| Semester V | EIN 4313 | Work Analysis | 3 |
| EGN 3375 | Introduction to Electrical Systems III | 3 |
| EGN 4411L | Introduction to Linear Systems | 3 |
| EIN 4933 | Managerial Cost Accounting | 3 |
| ESI 4312 | Deterministic O.R. | 3 |

| Semester VI | ESI 4313 | Probabilistic O.R. | 3 |
| EIN 4313L | Human Factors | 3 |
| EIN 4601 | Automation and Robotics | 3 |
| EIN 4333 | Production Control | 3 |

| Semester VII | ESI 4224 | Design of Experiments | 3 |
| ESI 5423 | Industrial Systems Simulation | 3 |
| EIN 4364L | Facilities Design I | 3 |

| Semester VIII | EIN 4365L | Facility Design II (MW/MI) | 3 |
| ESI 4221 | Industrial Statistics & Quality Control | 3 |
| *ALAMEA Perspectives Elective* | 3 |
| *Social Science Elective* | 3 |

*MW/MI (Non-Engineering) 3 |

**Approved General Education Requirements**

### Prerequisites (State Mandated Common Prerequisites)

Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

#### Math:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MAC 2311</td>
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<tr>
<td>MAC 2312</td>
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<td>MAC 2313</td>
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<th>Course</th>
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<tr>
<td>EGN 2210</td>
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#### Physics:

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<th>Course</th>
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<td>PHY 2048</td>
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<tr>
<td>PHY 2048L</td>
<td>3</td>
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<tr>
<td>PHY 2049</td>
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<tr>
<td>PHY 2049L</td>
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#### Chemistry:

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<th>Course</th>
<th>Hours</th>
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<tr>
<td>CHM 1045</td>
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<tr>
<td>CHM 1045L</td>
<td>3</td>
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<tr>
<td>CHM 1046</td>
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#### General:

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<th>Course</th>
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#### Graphics:

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<th>Course</th>
<th>Hours</th>
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<tr>
<td>EGS 1111</td>
<td>3</td>
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### Fortran

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>USF 1111</td>
<td>3</td>
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</tbody>
</table>

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

### Engineering Admissions Requirements

Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

### 6. Mechanical Engineering

Students pursuing the Bachelor of Science in Mechanical Engineering program take coursework in thermodynamics and heat transfer; instrumentation and measurements, energy conversion systems, solid and fluid mechanics, dynamics, machine analysis and design, mechanical design, and controls. This is supplemented by elective coursework in such areas as power plant analysis, refrigeration and air conditioning, mechanical design, advanced mechanics, heat transfer, robotics, propulsion, vibrations, computer-aided design, manufacturing, composite materials, and aerodynamics.

Students completing this program normally enter careers in a wide range of industries which either produce mechanical products or rely on machines, mechanical devices and systems to produce electricity, petroleum products, foods, textiles, building materials, etc. Mechanical Engineering graduates may follow careers in such fields as transportation, power generation, manufacturing, instrumentation, automatic control, ma-
chine design, construction, refrigeration, heating and air condition-
ing, aerospace, defense and all the process industries (foods, textiles, petrochemicals, pharmaceuticals, etc.). There are abundant career opportunities in a wide range of industries because mechanical equipment is required in every aspect of industrial production.

Bachelor's Curriculum
Mechanical Engineering

Semester I
ENC 1101 Freshman English I 3
MAC 2281 Engineering Calculus I 3
CHM 2041 General Chemistry I 3
CHM 2045L Chemistry Lab I 1
EGS 1113 Intro. to Design Graphics 3
ENG 4930 Foundations of Engineering 3

*Social Science Elective 3

Semester II
ENC 1102 Freshman English II 3
MAC 2282 Engineering Calculus II 3
CHM 2046 General Chemistry II 3
CHM 2046L General Chemistry II Lab 1
PHY 2048 General Physics I 3
PHY 2048L General Physics I Lab 1

*Historical Perspectives Elective 3

Summer Term
MAC 2283 Engineering Calculus III 3
PHY 2049 General Physics II 3
PHY 2049L General Physics II Lab 1
EGN 2210 Computer Tools for Engineers 2

Semester III
EGN 3311 Statics 3
EGN 3443 Engineering Statistics 3
MAP 2302 Differential Equations 3
EGN 3343 Thermodynamics I 3
EGN 3373 Introduction to Electrical Systems I 3

Semester IV
EGN 4450 Introduction to Linear Systems 2
EGN 3321 Dynamics 3
EME 4106 Thermal Systems and Economics 3
EGN 3365L Materials Engineering I 3

*General Education Electives 6

Semester V
EGN 3433 System Dynamics 3
EME 4041 Computer Methods 3
EME 3262 Kinematics and Dynamics of Machinery 3
EME 3500 Machine Analysis and Design I 3

*Historical Perspectives Elective 3

Semester VI
EME 4501 Machine Design 3
EME 3701 Fluid Systems 3
ENG 4931 Engineering Communications 3

*Fine Arts Elective 3

Semester VII
EME 4142 Heat Transfer I 3
EME 3303 Mechanical Engineering Lab I 3
EME 4551 Capstone Design (MW/MI) 3
Approved Technical Elective 3
Approved Technical Elective 3

Semester VIII
EME 4302 Mechanical Engineering Lab II 3

Approved Design Elective 3
Approved Technical Elective 3
Approved Technical Elective 1

*Approved General Education Requirements

Prerequisites (State Mandated Common Prerequisites)
Complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university. If a student wishes to transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

The following are transferable courses from the Community College that will be accepted in the Math/Science/Engineering areas:

Math

Calculus
USF
MAC 2281 MAC 2311 (3)
MAC 2282 MAC 2312 (3)
MAC 2283 MAC 2313 (3)

Differential Equations

MAP 2302 MAP 2302 (3)

Chemistry

General
USF
CHM 2041 CHM 1045 (3)
CHM 2045L CHM 1045L (1)
CHM 2046 CHM 1046 (3)
CHM 2046L CHM 1046L (1)

Physics

USF
PHY 2048 PHY 2048 (3)
PHY 2048L PHY 2048L (1)
PHY 2049 PHY 2049 (3)
PHY 2049L PHY 2049L (1)

Graphics

USF
EGS 1113 EGS 1111 (3)

Fortran

USF
EGN 2210 COP 2202 (3)

This is a limited access program involving special admissions requirements. Please be aware of the immunization, foreign language, continuous enrollment policies of the university, and qualitative standards required.

Engineering Admissions Requirements
Transfer students must have completed the equivalent USF Engineering Calculus sequence with a 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum of 2.0 GPA; must have an overall GPA of 2.0 or better.

College Regulations

1. Humanities and Social Science Requirements

While the Engineering undergraduate student is expected to complete certain requirements during the first two years of study which are directed toward the humanities and social sciences, and which are fulfilled by the completion of the General Education requirements of the University, the College of Engineering expects more of its prospective engineering graduates than this minimum. The engineer must not only be a technically competent individual, but must also be a person who can understand, adjust and contribute to the social environment.

Students who transfer from a State of Florida community college with an Associate of Arts degree and who have met that
college’s General Education Requirement will find their General Education coursework satisfies the University General Education Requirements.

English students must complete the USF Exit Requirements. The Literature and Writing portion can be met by completing ENC 4931 Communication for Engineers.

2. English Requirement
Students who have been admitted to the College of Engineering may be required to take an examination in order to evaluate their preparedness in the use and understanding of the English language. The examination is administered by the faculty of the University’s English program.

Students evidencing an English deficiency will be required to initiate the necessary corrective programs, with the assistance of their advisers. It is recognized that such deficiencies can exist even though a student has met the University’s minimum English requirements. Correction of any deficiency must commence the term after a student has been notified and must be completed prior to recommendation of the student for graduation by the faculty of the College. See Continuation and Graduation Requirements below for minimum grade requirements.

3. Mathematics Requirement
Students who are pursuing an engineering program are expected to acquire a facility for the rapid and accurate solution of problems requiring the use of mathematics. This requirement includes the ability to translate physical situations into mathematical models. Students evidencing a lack of manipulative ability or of the ability to apply mathematics will be required to take remedial coursework in engineering analysis and problem solving, unless this is part of their regular degree requirements. Faculty of the College who encounter students who are deficient in their mathematical ability will refer such cases to the Advising Office.

4. Continuation and Graduation Requirements
The curricula for the programs offered by various departments of the College of Engineering may be divided into four categories: a) General Education (Non-Technical Requirements); b) Basic Science Requirements (i.e., Math, Chemistry and Physics); c) Engineering Core Requirements; d) Program Specialization Requirements. All undergraduate students in the College of Engineering must maintain the minimum grade-point average (GPA) of 2.0 for each category and a 2.0 GPA for all engineering courses attempted. No case will the minimum GPA be less than 2.0. Faculty members or the students have the responsibility to make sure she/he meets all departmental requirements. In addition to the completion of the coursework and/or project requirements of the respective program of the College, students must be recommended for their degrees by the faculty of the College.

Students who do not maintain the required minimums of the program pursued in each category are ineligible for further registration in the College unless individually designed continuation programs are approved by the student’s academic adviser and approved by the department chairperson and the Engineering Associate Dean for Academic Affairs. All students who are academically dismissed from the University will be denied readmission to the College of Engineering unless they meet all requirements in effect at the time readmission is sought and are recommended for readmission by the department and the Associate Dean for Academic Affairs.

Students who register for a course three times without receiving a grade “D” or better (i.e., receive grades of W or F) will be denied further enrollment in the College of Engineering unless written permission is obtained from the department chairperson and the College Associate Dean for Academic Affairs.

Students pursuing College of Engineering degree programs are expected to take their courses on a graded basis (ABCDF). Exceptions require written approval of the department adviser prior to registration.

The College of Engineering requires that a student complete the Basic Science, Engineering Science and Specialization Requirements for the baccalaureate degree within seven years prior to the date of graduation. Any exceptions require approval of the department and Dean’s Office.

Each engineering student is required to complete the Application for Graduation - Check List and submit it to the College of Engineering Advising Office by the drop date of the term prior to the semester in which graduation is sought. Completion of this form is a requirement for graduation.

Effective fall of 1987, all students pursuing Bachelor of Science degree programs in Civil or Mechanical Engineering will be required to take the Fundamentals of Engineering Exam of the State Board of Professional Regulation at least one term prior to the term of anticipated graduation. Engineering students in other disciplines are strongly encouraged to do the same. (See the College Advising Office for applications and information.)

5. Transfer Credit
Transfer credit will be allowed by the USF College of Engineering when appropriate if the transferred course has been passed. In some cases credit for a course may be granted, but the hours accepted may be less than the hours earned at another school.

While credit for work at other institutions may be granted subject to the conditions of the previous paragraph, a minimum of thirty semester hours of engineering coursework specified by the degree granting department is required for a baccalaureate degree.

FIVE-YEAR PROGRAM - LEADING TO BACHELORS AND MASTERS DEGREES
Students who, at the beginning of their senior year, are clearly interested in graduate study are invited to pursue a Five-Year Program of study leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master of Science in Engineering or Engineering Science degrees. The keys to this program are:
1. A two-year research program extending through the fourth and fifth year.
2. The opportunity of taking some graduate courses during the fourth year and deferring the taking of some senior courses to the fifth year. The requirements of the combined degrees do not differ from those for the two degrees pursued separately.

Students apply for admission to this program through their adviser, who should be consulted when additional information is needed. General requirements include:
1. Senior standing (90 credits) with at least 16 upper level engineering credits completed at the University of South Florida with a 3.0 GPA.
2. A minimum score of 1000 on the verbal and quantitative portions of the Graduate Records Examination is expected.
3. Above-average performance in the chosen Engineering program is expected.

Certificate Programs
Certificate in Biomedical Engineering
The Certificate in Biomedical Engineering provides students an opportunity to gain an introduction to a rapidly developing field of study and to receive recognition for their endeavors. Students in the program must fulfill all the requirements for an Engineering undergraduate degree, such as Bachelor of Science in Chemical Engineering, and also meet the additional requirements of the Certificate program.

Chemistry/Biology (10 hours min.)
BSC 2010 * Biology II - Cellular Processes*
BCH 3023 * Biochemistry*
One of the following Organic Chemistry sequences:
CHM 2210 Organic Chemistry I
CHM 2211 Organic Chemistry II*
CHM 2200 Organic Chemistry***
Other "human sciences" (6 hrs. min.)
PSY 3044 Experimental Psychology**
One of the following:
PET 3310 Kinesiology
PET 3351 Exercise Physiology I
EXP 4104 Sensory Processes
PSB 4013C Neuropsychology
(or approved substitute)
Engineering (9 hrs. min.****)
EEL 4935 Special Electrical Topics
ECH 5746 Intro to Biomedical Engineering
One or more of the following (to achieve 9 hrs. min. in area):
EIN 4313L Human Factors
EIN 5245 Work Physiology & Biomechanics
ECH 5747 Selected Topics in Chemical Engineering Biotechnology
ECH 5748 Selected Topics in Biomedical Engineering
(or other approved Engineering courses)

*These courses are typically required for Medical School admission. Note that there may be other required courses, such as a course in Human Genetics and the Organic Chemistry laboratories.

**These courses are not normally required for Medical School admission, but are often "highly recommended".

***This is a single semester course in Organic Chemistry. This course does not normally satisfy the admission requirements of most medical schools. It also does not permit them to be accepted in the program.

****It is important to note that these engineering courses are above and beyond the courses necessary to satisfy the 136 hour requirement. That is, these courses will not also be countable as engineering electives towards the B. S. requirements for any of the departmental degree programs.

Certificate of Enhancement
The Certificate of Enhancement in (designated discipline) provides students an opportunity to gain an enhanced experience in their chosen field while pursuing an engineering degree and to permit them to receive recognition for the same requirements.

Requirements:
1. Enrolled in a Bachelor of Science degree program in a specified engineering discipline.
2. A minimum of 15 hours of additional elective courses, not included as a part of the B. S. degree, from an approved list.
3. A G.P.A. of 2.0 or greater for the additional hours.
4. The student must receive the engineering degree to receive the Certificate of Enhancement.

Computer Service Courses
These courses marked SC are specifically designed for the non-engineering student. Recognizing that the general purpose digital computer has made significant contributions to the advancement of all elements of the academic community and that it will have an ever greater impact in the future, the College of Engineering offers several levels of credit coursework, both undergraduate and graduate, to serve students of all colleges in order that they may be prepared to meet the computer challenge.

College Facilities
Each of the departments has several modern well-equipped laboratories that are used for undergraduate teaching. Some examples of specialized equipment available are a scanning electron microscope, a gas chromatograph mass spectrometer, a 250,000 lb. material testing machine, several microprocessor based control systems, industrial robots, a low turbulence subsonic wind tunnel, computer numerical controlled machinery, metal organic chemical vapor deposition systems, and integrated circuit design workstations.

College Computing Facilities
The College of Engineering Computing Facilities are used to provide support for specialized engineering calculations above and beyond those which are available at the IBM based Central Florida Regional Data Center (CFRDC).

The College of Engineering operates a cluster of file and computer servers for students and faculty within the College. These consist of SUN servers and four Ardent multiprocessors mini-supercomputers. The networks provide access from offices and laboratories, computer rooms and dial-in facilities. All machines are configured for E-mail, and access to Internet. Conventional asynchronus links to the campus central facility will shortly be supplemented with an Ethernet link.

In addition to the network facilities, the College operates open access P.C. labs. Three are available for undergraduate engineering students; a third smaller lab is reserved for graduate students and faculty.

The network facilities provide access either via Ethernet or the ISDN. Connections to offices, laboratories and classrooms are available on request, subject to budget priorities. The FEEDS studies are also networked to provide demonstrations for remote classes.

The College facilities run most of the standard engineering software. Languages include Fortran, Basic, Pascal, Ada, several varieties of LISP and Prolog. Applications software includes mathematical libraries, suites of programs for VLSI design, chemical process design, civil and mechanical engineering design, robotics simulation, and circuit simulation and analysis. There are high resolution color terminals for use in conjunction with these activities, and for mechanical design there are four multiple display workstations with joysticks and digitizing pads. Similar arrangements are used for VLSI design.

Additionally, the Computer Science and Engineering Department within the College runs other facilities consisting of an Ethernet with SUN and DEC machines, an Intel Hypercube parallel computer, and extensive microcomputer laboratories.

Cooperative Education Program
A wide variety of industries and government agencies have established cooperative programs for engineering students to provide them the opportunity to become familiar with the practical aspects of industrial operations and engineering careers. Students in the Career Resource Center's Cooperative Education (Co-op) program alternate periods of paid employment in their major field with like periods of study. Students following the Co-op program usually encounter no problems in scheduling their program, since required Social Science and Humanities, Mathematics and Science, and Engineering Core courses are offered every semester. Students normally apply for participation in this program during their sophomore year and pursue actual Co-op employment during their sophomore and junior
years. The senior year is generally pursued on a full-time study basis, since many specialization courses are not offered every semester. The students receive a Cooperative Education Certificate upon successful completion of a minimum of two work assignments.

STAC
(Southern Technology Applications Center)

The Space Act of 1958 directed NASA "to provide the widest practical and appropriate dissemination of information concerning its activities and results thereof." In order to pursue this mandate NASA established a network of Industrial Applications Centers (IACS) to disseminate and transfer NASA technology, products and processes to the private sector.

In 1977 NASA and the State University System of Florida combined resources to form the Southern Technology Applications Center which operated a regional IAC in the State of Florida. STAC is a not-for-profit 501.C3 Corporation partially supported by NASA and SUS grants and its effective network of experts and resources are located at the colleges of Engineering at six of the SUS universities.

In December 1991 the NASA IAC Network was reorganized to provide comprehensive technology transfer and economic development services. The new program resulted in a network of six Regional Technology Transfer Centers that link NASA Field Centers, Federal laboratories, Universities and other Technology Transfer networks for more efficient technology transfer.

In January 1992 STAC was appointed the Southeast Regional Technology Transfer Center (RTTC) with responsibility for nine Southeastern states.

Since the early days of its existence STAC has built a reputation for successfully identifying, matching, developing and deploying the critical information and technology needed by business, industry, academic institutions and government. In this way, American companies, especially small firms are able to capitalize rapidly on the results of scientific research and technological innovation and realize the increased productivity necessary to compete in the dynamic marketplace.

The cornerstone of STAC's technology transfer success is a professional staff trained and experienced in engineering, physical and biological sciences, medicine, social and behavioral sciences, business planning, marketing, training, library sciences, and government. STAC's Information Research Center accesses an international array of over 2000 databases and 35 document retrieval sources. STAC's hands-on approach enables each client to receive the attention and alternative solutions needed to make the best strategic decisions.

STAC is the connection to access the information technology, inventions, equipment, facilities and expertise that resides within NASA, the other 700+ Federal laboratories and the SUS Universities.

Army & Air Force R.O.T.C.
For Engineering Students

The Engineering curriculum, coupled with involvement in the Army or Air Force R.O.T.C. program, requires a minimum of five (5) years to complete the degree requirements. Army and Air Force R.O.T.C. cadets must take 16 additional hours in either military science or aerospace studies. Additionally, Army Force-sponsored summer training camp is scheduled between the sophomore and junior years for Air Force cadets, and Army cadets attend an Army-sponsored summer training program between the junior and senior years.

ENGINEERING FACULTY

Chemical Engineering

Civil and Environmental Engineering

Computer Science and Engineering

Electrical Engineering

Industrial and Management Systems

Mechanical Engineering

ENGINEERING COURSES

Basic and Interdisciplinary Engineering
EGN 2031 HISTORY OF TECHNOLOGY -HP (3)
Covers the evolution of technology and its influence on society from prehistoric man to the modern day. Topics include: seven technological ages of man, methods of producing power, materials, transportation, communication and calculation, and technology and society.

EGN 2210 COMPUTER TOOLS FOR ENGINEERS (3)
PR: MAC 2281. Students will be introduced to computer based engineering tools and their application to the solution of engineering problems. The programming language, FORTRAN, will be the most emphasized tool, but coverage will also be given to other engineering/mathematical tools such as equation solving tools and spreadsheets.

EGN 3311 STATICS (3)

EGN 3311 DYNAMICS (3)
PR: EGN 3311. Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.

EGN 3331 MECHANICS OF MATERIALS (3)
PR: EGN 3311. Stress, strain, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.

EGN 3331L MECHANICS OF MATERIALS LABORATORY (1)
EGN 3343 THERMODYNAMICS I (3)

EGN 3353 BASIC FLUID MECHANICS (3)

EGN 3365 MATERIALS ENGINEERING I (3)
PR: CHM 2046, EGN 3311. Structure and property relationships in engineering materials, i.e., metal, ceramic and polymer systems. Environmental effects are also treated.

EGN 3373 INTRODUCTION TO ELECTRICAL SYSTEMS I (3)

EGN 3374 INTRODUCTION TO ELECTRICAL SYSTEMS II (3)
PR: EGN 3373. Continuation of EGN 3373.

EGN 3433 SYSTEM DYNAMICS (3)
CR: EML 4041; PR: EGN 3321, EGN 4450, PHY 2049. Dynamic analysis of electrical, mechanical, hydraulic and thermal systems; Laplace transforms; numerical methods; use of computer in dynamic systems.

EGN 3613C ENGINEERING ECONOMY I (3)
A study in analyzing the economic limitations imposed on engineering activities using basic models which consider the time value of money.

EGN 4366 MATERIALS ENGINEERING II (3)
PR: EGN 3365. Applications and structure property relationships of commonly used engineering materials. Steel, nonferrous alloys and their welds, heat treatment and processing, introduction to ceramic and polymeric materials.

EGN 4420 NUMERICAL METHODS OF ANALYSIS (2)

EGN 4450 INTRODUCTION TO LINEAR SYSTEMS (2)
PR: MAC 2282. Study and application of matrix algebra, differential equations and calculus of finite differences.

EGN 4831 TECHNOLOGY AND SOCIETY - XML (3)
Non-technical survey of engineering activities: utilities, nuclear power, genetics, weaponry, space, etc. Students conduct individual in-depth study of environmental/ethical problem.

EGN 4905 INDEPENDENT STUDY (1-5)
PR: CI. Specialized independent study determined by the students' needs and interests. May be repeated up to 15 credit hours. (S/U only.)

EGN 4930 SPECIAL TOPICS IN ENGINEERING (1-3)
PR: CI. New technical topics of interest to engineering students. May be repeated for different topics up to 9 hours.

EGN 5421 ENGINEERING APPLICATIONS FOR VECTOR ANALYSIS (3)
PR: MAP 2302. Vector methods of electromagnetic and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.

EGN 5422 ENGINEERING APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS (3)

EGN 5423 MATHEMATICAL ASPECTS OF COMMUNICATION ENGINEERING (3)

EGN 5424 ENGINEERING APPLICATIONS OF COMPLEX ANALYSIS (3)
PR: MAC 2302 or CC. Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

EGN 5425 ENGINEERING APPLICATIONS OF ADVANCED MATRIX COMPUTATIONS (2)
PR: EGN 4450 and MAP 2302, or CC. Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications.

EGS 1113 INTRODUCTION TO DESIGN GRAPHICS (3)
An introduction to the basic principles of engineering design. The course will include the graphic projective systems used in engineering drawing and design. Methods of graphic communication and graphic analysis of engineering design problems will be investigated.

Chemical Engineering

ECH 3023 INTRODUCTION TO PROCESS ENGINEERING (3)

ECH 3264C TRANSPORT PROCESSES I (3)
PR: ECH 3023. Design, sizing, and selection of fluid flow and heat transfer equipment to satisfy process demands. Lecture/laboratory.

ECH 3702 INSTRUMENT SYSTEMS I (4)

ECH 4123C PHASE AND CHEMICAL EQUILIBRIA (3)
PR: For majors, ECH 3023; for non-majors ECH 3023 or CHM 4410. Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and reactor design. Lecture/laboratory.

ECH 4244L CHEMICAL ENGINEERING LABORATORY II (2)
CR: ECH 4415C. ECH 3702, EML 3303, or CI. Engineering laboratory experiments in Chemical Engineering Processes: fluid flow, heat transfer, phase and chemical equilibria, chemical reacting systems.

ECH 4265C TRANSPORT PROCESSES II (3)
PR: ECH 3264C. Design, sizing, and selection of mass transfer equipment. Absorption, distillation, extraction, humidification. Lecture/laboratory.

ECH 4323C AUTOMATIC CONTROL I (3)

ECH 4415C REACTING SYSTEMS (3)
CR: ECH 4244L. PR: CHM 4412, ECH 4123C. Equilibrium and rate phenomena in reacting systems. Description of homogeneous chemical reactors for design and control. Lecture/laboratory.

ECH 4605 STRATEGIES OF PROCESS ENGINEERING (3)

ECH 4615 PLANT DESIGN AND OPTIMIZATION (3)

ECH 4905 INDEPENDENT STUDY (1-4)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 3 credit hours.
in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

CEG 4011 GEOTECHNICAL LABORATORY (1)
PR: CEG 4011. Demonstrates and experiments verifying theoretical bases of Geotechnical Engineering. One hour lecture and two laboratory hours per week.

CEG 4012 SOIL MECHANICS II (3)
PR: CEG 4011. Design of retaining walls, earth slopes, foundations to control settlement, soil stabilization and foundations subjected to dynamic loads. Computer applications to soil mechanics will be covered.

CEG 4801 GEOTECHNICAL DESIGN (2)
PR: CEG 4011. Design of geotechnical systems including bases, foundations, embankments, and dams.

CEG 4850 CAPSTONE GEOTECHNICAL/TRANSPORTATION DESIGN (3)
PR: CEG 4011, TTE 4004. A capstone geotechnical/transportation design experience for seniors in Civil and Environmental Engineering. Design of embankments and pavement bases. Comprehensive surface streets. Open highway intersection and site design involving functional design, facility sizing, complete alignments and coordination, plan preparation, site layout and design, quantity summarization, bid tab planning and specification preparation.

CENG 5115 FOUNDATION ENGINEERING (3)
PR: CEG 4011 or CI. Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.

CENG 5205 LABORATORY TESTING FOR GEOTECHNICAL ENGINEERS (3)
PR: CEG 4011 or CI. Both routine and advanced forms of soil testing are covered. Emphasis is placed on procedures and application of results to design.

CENG 5302 STRUCTURAL ANALYSIS (3)
PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Introduction to the use of energy methods in indeterminate structures.

CENG 5400 STRUCTURES AND THE URBAN ENVIRONMENT FOR NON-ENGINEERS - 6A-XMW (3)
This course reviews the best works of structural engineering to indicate how current technology and social context affects structural form, to familiarize students with relevant structural principles, and to introduce the concept of structural art.

CENG 5411 MATRIX STRUCTURAL ANALYSIS (3)

CENG 5461 COMPUTER AIDERD STRUCTURAL DESIGN (3)
PR: CENG 4414. Computer aided structural analysis and design using existing finite element program, static dynamic loading.

CENG 6405 CONCEPTS OF STEEL DESIGN (3)
PR: CENG 3102. Introduction to steel design and AISI Manual of Steel Construction: Design of tension members; compression members; beams; beam-columns; and bolted, welded, and riveted connections.

CENG 6416 STRUCTURAL DESIGN STEEL (2)
PR: CENG 4805. Design of structures made of steel.

CENG 6472 CONCEPTS OF CONCRETE DESIGN (3)
PR: CENG 4802. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete: Design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns.

CENG 6474 STRUCTURAL DESIGN-CONCRETE (2)

CENG 6472 CAPSTONE STRUCTURAL/ MATERIALS DESIGN (3)
PR: CENG 3365, CENG 4702, CENG 4805. A capstone materials design experience for seniors in Civil and Environmental Engineering. This course will provide students with a focused design experience aimed at design for durability and reliability.

CENG 6474 CAPSTONE STRUCTURAL/GEOTECHNICAL DESIGN (3)
PR: CENG 3365, CENG 4805. A capstone structural/geotechnical design experience for seniors in Civil and Environmental Engineering.
Engineering. Design of structures and foundations made of steel and reinforced concrete.

CWR 4202 CONCEPTS OF STRUCTURAL DESIGN
PR: CWR 3102. Introduction to concrete design and the ACI Building Code Requirements for reinforced concrete; design of flexural reinforcement in beams and slabs, design of shear reinforcement, design of concrete columns, and design of steel beams.

CWR 4202 TIMBER AND MASONRY DESIGN
PR: CWR 3102, CWR 4702. Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and pilasters.

CWR 4820 STRUCTURAL DYNAMICS
PR: CWR 3102. Behavior of structural components and systems when subjected to periodic dynamic loads.

CWR 5715C PRESTRESSED CONCRETE
PR: CI. Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of prestress applications.

CGN 4905 INDEPENDENT STUDY
PR: CC. Specialized independent study determined by the students' needs and interests. May be repeated up to 15 credit hours. (S/U only.)

CGN 4911 RESEARCH IN CIVIL ENGINEERING AND MECHANICS
PR: CC.

CGN 4914 SENIOR PROJECT
PR: CI. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.

CGN 5833 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS
PR: CI. New technical topics of interest to civil engineering students.

CWR 4202 HYDRAULICS
PR: EGN 3353. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

CWR 4812 CAPSTONE WATER RESOURCES DESIGN
PR: CWR 4202, CWR 4103. A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design oriented course to design both industrial and domestic water treatment, and water transport systems and hydraulic systems, including drainage, water supply, and flood control.

EWA 4324 CORROSION OF ENGINEERING MATERIALS I
PR: EGN 3365L. Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.

EWA 4703 FAILURE ANALYSIS AND PREVENTION

ENV 3001 ENVIRONMENTAL ENGINEERING
PR: EGN 3331, EGN 3353. An introduction to various aspects of environmental problems facing today's society. Topics covered are: air pollution, water pollution, noise pollution, soil waste management, ionizing radiation, disease transmission, and food protection.

ENV 3004L ENVIRONMENTAL ENGINEERING LABORATORY
PR: ENV 3001, CR: ENV 4502. Laboratory experience in the measuring of environmental parameters.

ENV 4101 AIR POLLUTION CONTROL
PR: EGN 3353. Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

ENV 4400 CHEMICAL ASPECTS OF ENVIRONMENTAL ENGINEERING
PR: EGN 3353. Course is restricted to students pursuing the environmental engineering option in Civil Engineering and Chemical Engineering.

ENV 4417 WATER QUALITY AND TREATMENT
PR: EGN 3353. An introduction to municipal water supply and water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

ENV 4432 WATER SYSTEMS DESIGN
PR: EGN 3343, EGN 3353. CR: ENV 3001. The theory and design of unit operations normally used in engineering practice. It covers both industrial and domestic water treatment and water transport systems. It emphasizes the design procedures normally used in engineering practice.

ENV 4502 ENVIRONMENTAL UNIT OPERATIONS
PR: EGN 3343, EGN 3353. CR: ENV 3001. The theory and design of unit operations normally used in environmental engineering such as coagulation of colloidal materials, water stabilization, water softening and neutralization, ion exchange, adsorption and oxidation processes for removal of iron and magnesium.

ENV 4531 WASTEWATER SYSTEMS DESIGN
PR: ENV 4503. Emphasis is placed upon design practice and economics for a comprehensive design of a wastewater system and a collection system.

ENV 4552L ENVIRONMENTAL UNIT OPERATIONS AND PROCESSES LABORATORY
PR: EGN 3333, ENV 4004L. CR: ENV 4503. Experimental work of the theory and design practices learned in Unit
Operations and Unit Processes lecture courses. It provides
the student familiarity with the development of bench and
pilot plant processes and operations used in environmental
engineering.

**ENV 4891 CAPSTONE WATER AND WASTEWATER DESIGN** (3)
PR: EGN 3353 and ENV 4503. A capstone environmental
design experience for seniors in Civil and Environmental
Engineering. A design oriented course to design both indus-
trial and domestic water treatment and water transport
systems and wastewater and effluent systems. The course
emphasizes the design procedure normally used in engi-
neering practice.

**ENV 5105 AIR RESOURCE MANAGEMENT** (3)
PR: CI. Air pollution source impacts on ambient air quality,
modeling, regulatory approaches, source strategic controls
and surveillance.

**ENV 5345 SOLID AND HAZARDOUS WASTE CONTROL** (3)
PR: CI. Treatment practices and design of waste handling
systems to include: land treatment, pre-treatment, incineration,
resource recovery, recycle, waste elimination.

**ENV 5514 ENVIRONMENTAL RISK ANALYSIS** (3)
PR: CI. Study of comprehensive application of risk analysis
techniques for environmental control and protection pur-
poses.

**SUR 3140C ENGINEERING LAND SURVEYING** (3)
Principles of land surveying for engineering practice.
Transportation, boundary surveys, routes surveys, coordi-
nate geometry, and mapping.

**TTE 4004 TRANSPORTATION ENGINEERING I** (3)
PR: EGN 3321. Principles of surface transportation system
development, design, and operations; administration, modal
classifications, capacities, and functional classifications;
vehicle origins, human factors and minimum design stan-
ards; traffic flow theory and queuing, capacity and signal-
ization; transportation planning and economics.

**TTE 4005 TRANSPORTATION ENGINEERING II** (3)
PR: TTE 4004. Techniques for the geometric route design of
surface transportation systems; horizontal and vertical align-
ments. Spiral curves, superelevations and earthwork analy-
sis; drainage, soils, and a rigid and flexible pavement design;
right-of-way acquisition and Environmental Impacts; site
layout & design, and operation of alternate modes including
bus, air, rail, water, and pipeline facilities and terminals.

**TTE 4821 TRANSPORTATION SYSTEMS DESIGN** (2)
PR: TTE 4803. Comprehensive surface transportation des-
dign laboratory experience involving function design, traffic
and facility sizing, complete alignments, site surveying &
layout plan and quantity preparation with computerized
designed applications.

**TTE 5501 TRANSPORTATION PLANNING AND ECONOMICS** (3)
PR: College Algebra & CI. Fundamentals of urban transpor-
tation planning: trip generation, trip distribution, modal split,
traffic assignment. Introduction to environmental impact
analysis, evaluation and choice of transportation alternatives.

**Computer Science and Engineering**

**CAP 5400 DIGITAL IMAGE PROCESSING** (3)
PR: EEL 4851C or Graduate Standing. Image formation,
Sources of image degradation, image enhancement tech-
niques, edge detection operators, and threshold selection,
low-level processing algorithms for vision, image data com-
pression.

**CAP 5625 INTRODUCTION TO ARTIFICIAL INTELLIGENCE** (3)
PR: EEL 4851 C. Basic concepts, tools and techniques used
to produce and study intelligent behavior. Organizing knowl-
edge, exploiting constraints, searching spaces, understand-
ing natural languages, problem solving strategies, etc.

**CAP 5682 EXPERT AND INTELLIGENT SYSTEMS** (3)
Basic concepts, techniques and tools for the design and
implementation of expert and intelligent systems. Knowl-
edge representation, inference methods, knowledge acquisi-
tion, methodology and some application concepts. Tools
to facilitate construction of expert and intelligent systems.

**CDA 4100 COMPUTER ORGANIZATION & ARCHITECTURE** (3)
PR: EEL 4705. Elements of computer systems; processors,
memories and switches. Register transfer representation of
a computer. ALUs and their implementation. The control
unit. Memory and I/O. Hardware support of operation system
functions.

**CDA 4203 COMPUTER SYSTEM DESIGN** (3)
PR: EEL 4705, EEL 4705L. CR: CDA 4203L. Design Meth-
ods, Top-Down design, Building Blocks, Instruction and
addressing models, minicomputer design, interfacing.

**CDA 4208L COMPUTER SYSTEM DESIGN LAB** (1)
PR: EEL 4705 and EEL 4705L. CR: CDA 4203. This lab
introduces the student to the concept of system design.
Several projects are given including building timing circuits,
memory-based and communication circuits, and microcomputer-based designs.

**CEN 4020 SOFTWARE ENGINEERING** (3)
PR: EEL 4851C. An overview of software engineering tech-
niques for producing high quality software. Student will
participate in a software development team.

**CEN 4721 USER INTERFACE DESIGN** (3)
An examination of factors influencing the usability of a
computer system. Topics include input and output devices,
graphic and multi-media interfaces, formats for interaction/
communication between computer and user, and the evalu-
ation of usability.

**CIS 4250 ETHICAL ISSUES AND PROFESSIONAL**
CONDUCT – 64 -X-Y-Z-
(2)
PR: Senior standing in the Department of Computer Science and
Engineering. An introduction to ethical issues arising in
the computer sciences, through written analysis and oral
presentations of technical situations which involve ethical
conflicts.

**CIS 4251 INDEPENDENT STUDY IN COMPUTER SCIENCE** (1-5)
PR: CI. Specialized independent study determined by the
needs and interests of the student. May be repeated up to 10
credit hours. (S/U only.)

**CIS 4910 COMPUTER SCIENCE PROJECT** (2)
Projects intended to develop individual skills and abilities in
computer science involving either computer hardware or
software aspects of a well defined proposal.

**CIS 4930 SPECIAL TOPICS IN COMPUTER SCIENCE I** (1-4)
PR: CI. May be repeated up to 15 credit hours.

**COP 2000L COMPUTER SCIENCE LABORATORY** (1)
CR: COP 2002. Laboratory for implementation of algorithms in
a general purpose computer language.

**COP 2002 INTRODUCTION TO COMPUTER SCIENCE** (3)
CR: COP 2000L. Introduction to the concepts of algorithmic
formulation of problems for computer solution and the gen-
eral abstract operations used in these formulations.

**COP 2003L COMPUTER CONCEPTS** (3)
PR: COP 2000L. Principles of computer organization, ma-
chine and assembly language programming.

**COP 2510 PROGRAMMING CONCEPTS** (3)
PR: COP 2000L. An examination of a modern programming
language emphasizing programming concepts and design
methodology.

**COP 4020 PROGRAMMING LANGUAGES** (3)
PR: EEL 4851C. An introduction to programming languages,
survey of language types and design of translators and
interpreters.

**COP 4023 COMPARISON OF PROGRAMMING LANGUAGES** (3)
PR: EEL 4851C. A comparative study of procedural and
non-procedural computer languages, emphasizing the fun-
damental differences in information binding, string and data
structures manipulation, control and I/O structures in differ-
ent languages.

**COP 4512 SYMBOLIC COMPUTER FOR ARTIFICIAL**
INTELLIGENCE I (3)
PR: COP 2000L. An examination of the fundamental sym-
bolistic computing and its role in artificially intelligent com-
puters. Includes program writing in LISP with emphasis on
procedural and data abstraction.

**COP 4800 OPERATING SYSTEMS** (3)
PR: EEL 4851C. Introduction to systems programming.
Design of operating systems. Concurrent processing, syn-
chronization, and storage management policies.
event simulation models of real world systems using the GPs language.

CGS 3464 SC SIMSCRIPT SIMULATION

CGS 4260 SC MINI-COMPUTER APPLICATIONS
PR: CGS 4465. Study of mini-computer system components, I-O devices, theory of computer operation.

COP 2120 SC COBOL PROGRAMMING I

COP 2121 SC COBOL PROGRAMMING II
PR: COP 2120. Advanced applications of ANSI Standard COBOL. Development of subroutines, relative I-O and data base applications as used in a comprehensive data processing environment.

COP 2200 SC FORTRAN PROGRAMMING
PR: CGS 2060. Solution of scientifically oriented problems using the FORTRAN language. Particular emphasis is placed on file manipulation and system libraries.

ETG 4931 SPECIAL TOPICS IN TECHNOLOGY I
PR: CC. (1-5)

ETG 4932 SPECIAL TOPICS IN TECHNOLOGY II
PR: CC. (1-5)

ETI 4666 PRINCIPLES OF INDUSTRIAL OPERATIONS II
PR: CC. Application of techniques developed to the operation of an industrial firm through special projects.

Electrical Engineering

EEL 3100 NETWORK ANALYSIS AND DESIGN

EEL 3302 ELECTRONICS I
PR: EGN 3373. A course in the physical principles of electronic devices with emphasis on semiconductor electronics. Includes the analysis and design of amplifiers and switching circuits.

EEL 4102 LINEAR SYSTEMS ANALYSIS
PR: EEL 3100. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain techniques, Laplace transform, Fourier and superposition integrals.

EEL 4163 COMPUTER AIDED DESIGN AND ANALYSIS
PR: EEL 3302, EEL 4705. The emphasis is upon applying digital logic design techniques to solve a wide variety of engineering problems. The coverage includes solid state design, systems analysis, digital logic, and transfer function solutions.

EEL 4305 ELECTRONIC DEVICES
PR: EEL 3302. Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

EEL 4531C SEMICONDUCTOR DEVICES
PR: EEL 3302. An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

EEL 4511 COMMUNICATION ENGINEERING
PR: EEL 4512. Analog telephone network; digitalization. Digital transmission and multiplexing; Digital switching; space division switching; time-division switching, space-time switching; analog environment; Broadcasting and recording (audio and video); television systems, cable and satellite TV.

EEL 4511L COMMUNICATIONS LABORATORY

EEL 4512C INTRODUCTION TO COMMUNICATION SYSTEMS
PR: EEL 3100. Signals and Fourier transforms in communication systems; measure of information in signals. AM, FM, and PM modulation and demodulation systems. Sampling, quantization and PCM. Data communication; terminals, and modems; repeaters, timing circuits, and interfaces. Local networks.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EEL 4567</td>
<td>ELECTRO-OPTICS</td>
<td>(3)</td>
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<tr>
<td>EEL 4657</td>
<td>LINEAR CONTROL SYSTEMS</td>
<td>(3)</td>
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<tr>
<td>EEL 4705</td>
<td>LOGIC DESIGN</td>
<td>(3)</td>
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<td>EEL 4710</td>
<td>LABORATORY</td>
<td>(1)</td>
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<tr>
<td>EEL 4743L</td>
<td>MICROPROCESSOR LABORATORY</td>
<td>(1)</td>
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<tr>
<td>EEL 4744</td>
<td>Laboratory for microprocessor use and evaluation</td>
<td>(1)</td>
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<tr>
<td>EEL 4746</td>
<td>MICROPROCESSOR PRINCIPLES AND APPLICATIONS</td>
<td>(3)</td>
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<tr>
<td>EEL 4795</td>
<td>INDEPENDENT STUDY</td>
<td>(1-5)</td>
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<tr>
<td>EEL 4906</td>
<td>INTRO TO ENGINEERING DESIGN</td>
<td>(2)</td>
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<td>EEL 4935,  4936, 4937</td>
<td>SPECIAL ELECTRICAL</td>
<td>(1-4 each)</td>
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<tr>
<td>EEL 5344</td>
<td>DIGITAL CMOS/VLSI DESIGN</td>
<td>(3)</td>
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<tr>
<td>EEL 5356</td>
<td>INTEGRATED CIRCUIT TECHNOLOGY</td>
<td>(3)</td>
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<tr>
<td>EEL 5357</td>
<td>ANALOG CMOS/VLSI DESIGN</td>
<td>(3)</td>
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<tr>
<td>EEL 5382</td>
<td>MICROELECTRONICS</td>
<td>(3)</td>
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<tr>
<td>EEL 5437</td>
<td>MICROWAVE ENGINEERING</td>
<td>(3)</td>
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<tr>
<td>EEL 4531</td>
<td>PHYSICS</td>
<td>(3)</td>
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<tr>
<td>EEL 4511</td>
<td>FACILITIES DESIGN I</td>
<td>(3)</td>
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<tr>
<td>EEL 4512</td>
<td>FACILITIES DESIGN II</td>
<td>(3)</td>
</tr>
<tr>
<td>EEL 4513</td>
<td>HUMAN FACTORS</td>
<td>(3)</td>
</tr>
<tr>
<td>EEL 4516</td>
<td>FACILITIES DESIGN II - XMW</td>
<td>(3)</td>
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<tr>
<td>EEL 4533</td>
<td>SPECIAL TOPICS IN INDUSTRIAL ENGINEERING</td>
<td>(1-5)</td>
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**Industrial and Management Systems**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EIN 4304C</td>
<td>INTRODUCTION TO INDUSTRIAL ENGINEERING</td>
<td>(3)</td>
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<tr>
<td>EIN 4364C</td>
<td>FACILITIES DESIGN I</td>
<td>(3)</td>
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<tr>
<td>EIN 4364C</td>
<td>FACILITIES DESIGN II - XMW</td>
<td>(3)</td>
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<tr>
<td>EIN 4365</td>
<td>MANUFACTURING PROCESSES</td>
<td>(3)</td>
</tr>
<tr>
<td>EIN 4601L</td>
<td>AUTOMATION AND ROBOTICS</td>
<td>(3)</td>
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<tr>
<td>EIN 4933</td>
<td>SPECIAL TOPICS IN INDUSTRIAL ENGINEERING</td>
<td>(1-5)</td>
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</tbody>
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human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

**EIN 5245 WORK PHYSIOLOGY AND BIOMECHANICS** (3)
PR: CC. Human physiological limitations encountered in the design, analysis and evaluation of man-machine systems.

**EIN 5253 HUMAN PROBLEMS IN AUTOMATION** (3)
The study and analysis of combined human operations, automated processes, and robotics in industrial environments.

**EIN 5301C INDUSTRIAL ENGINEERING CONCEPTS** (3)
PR: CC. Survey of industrial and management engineering methodology. Work measurement, methods, production and inventory control, and facility design.

**EIN 5322 PRINCIPLES OF ENGINEERING MANAGEMENT** (3)
Introduction to the fundamentals of accounting, finance, management, and marketing as needed by engineers, scientists, and other professionals in managerial positions.

**EIN 5357 ENGINEERING VALUE ANALYSIS** (3)
Study of methods for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

**EIN 5388 TECHNOLOGICAL FORECASTING** (3)
Introduction to forecasting techniques used to plan and schedule production and inventory control functions. Smoothing and decomposition time-series methods, regression methods, and autoregressive moving average methods. Integrating forecasting and planning into the engineering organization.

**EIN 5914 SPECIAL INDUSTRIAL PROJECTS** (1-3)
PR: CC.

**ESI 4221 INDUSTRIAL STATISTICS AND QUALITY CONTROL** (3)
PR: EGN 3443. Application of statistical techniques to the control of industrial processes. Control charts, acceptance sampling, design of experiments, analysis of variance and regression.

**ESI 4344 DESIGN OF EXPERIMENTS** (3)
PR: EGN 3443. Activity forecasting models and control. Design and use of inventory control models, both designs applicable to engineering analyses. Analysis of variance and regression.

**ESI 4312 DETERMINISTIC O.R.** (3)
PR: EGN 4450. An introduction to operations research techniques with particular emphasis on deterministic models: Linear programming, dynamic programming, goal programming, integer programming, and PERT/CPM networks are considered.

**ESI 4313 PROBABILISTIC O.R.** (3)

**ESI 4161C COMPUTERS IN INDUSTRIAL ENGINEERING** (3)
PR: EGN 2210. Use of micro and mini computer systems for industrial engineering applications. Review of available software packages. Use of computers for CAS/CAM systems.

**ESI 4523 INDUSTRIAL SYSTEMS SIMULATION** (3)
PR: ESI 4313. A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

**ESI 4995 INDEPENDENT STUDY** (1-5)
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours. (S/U only.)

**ESI 4911 SENIOR PROJECT** (2)
PR: EIN 4333, EIN 4312, EIN 4411. Analysis and design of systems in a directed project format. Individual or group work consisting of project proposal, project activities, and final report. Student projects are directed by faculty, with chairman's approval.

**ESI 5219 STATISTICAL METHODS FOR ENGINEERING MANAGERS** (3)
Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty. Not open to students who have had EGN 3443.

**ESI 5236 RELIABILITY ENGINEERING** (3)
PR: EGN 3443 or equivalent. Fundamental concepts of reliability, estimation of reliability of systems and components. Measures of availability, maintainability and reliability.

**ESI 5256 OPERATIONS RESEARCH FOR ENGINEERING MANAGEMENT** (3)
Linear programming, non-linear programming, queueing, inventory, network analysis. Not open to students who have had ESI 4315.

**ESI 5470 MANUFACTURING SYSTEMS ANALYSIS** (3)
PR: CC. The study of systems of manufacturing entities such as machines, tools, robots, and material handlers. Emphasis is on mathematical description of integrated systems and system optimization.

**ESI 5522 COMPUTER SIMULATION II** (3)

### Mechanical Engineering

**EAS 4121 HYDRO AND AERODYNAMICS** (3)
PR: EML 3701, MAP 2302. Advanced fluid dynamics, ideal and viscous flows, applications to flow around immersed bodies.

**EML 3262 KINEMATICS AND DYNAMICS OF MACHINERY** (3)
PR: MAC 2282, PHY 2048, EGN 3321. Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.

**EML 3303 MECHANICAL ENGINEERING LAB II** (3)

**EML 3504 MACHINE ANALYSIS AND DESIGN I** (3)
PR: EGN 3311, EGN 3365. Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

**EML 3701 FLUID SYSTEMS** (3)
PR: EGN 3343. Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

**EML 4041 COMPUTATIONAL METHODS** (3)
PR: EGN 2210, EGN 4450. Techniques to solve engineering problems using numerical methods and digital computers. Topics include root finding, equation simultaneous linear equations, numerical integration and differentiation, and curve fitting.

**EML 4106C THERMAL SYSTEMS AND ECONOMICS** (3)
PR: EGN 3343. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; cogeneration; nuclear energy; methods of economic analysis.

**EML 4142C HEAT TRANSFER I** (3)
PR: EML 3701, EML 4041. Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.

**EML 4174 VISUAL BASIC FOR ENGINEERS AND SCIENTISTS** (3)
PR: EGN 2210. Introduces students to the powerful graphical interface language of Visual Basic. Illustrates the use of the language in engineering and science applications.

**EML 4312C VIBRATION I** (3)

**EML 4321C MECHANICAL ENGINEERING LABORATORY II** (3)
PR: EML 3303, EML 4142. Continuation of EML 3303 with emphasis on material and energy balances, stress analysis and vibrations. Lec.-Lab. The Team-Project-Time Approach.
EML 4312 MECHANICAL CONTROLS (3)  

EML 4419C PROPULSION I (3)  
PR: EML 3701, EML 3500 or CI. Introduction to the design of propulsion systems. Basic analysis of internal combustion, jet and rocket engines. Application to ground and air transportation. Advanced propulsion concepts. Special topics for class discussion.

EML 4501 MACHINE DESIGN (3)  
PR: EML 3500, EML 3262. Continuation of EML 3500. Antifriction bearings, journal bearings, power transmission, shafting.

EML 4551 CAPSTONE DESIGN -XMW (3)  
PR: EML 4501. Comprehensive design or feasibility project requiring application of previously acquired engineering knowledge; use of ANSYS and CAD.

EML 4552 SENIOR MECHANICAL DESIGN (3)  
PR: EML 4551 or CC. Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.

EML 4562 INTRODUCTION TO COMPOSITE MATERIALS (3)  
introduces manufacturing types and applications of advanced composites. Students study micromechanical and macromechanical behavior of a lamina and analyze and design a laminated structure made of advanced composite materials.

EML 4601 AIR CONDITIONING DESIGN (3)  

EML 4905 INDEPENDENT STUDY (1-4)  
PR: CI. Specialized independent study determined by the student's needs and interests. May be repeated up to 15 credit hours.

EML 4930 SPECIAL TOPICS IN MECHANICAL ENGR. (1-4)  

EML 5105 INTERNAL COMBUSTION ENGINES (3)  
PR: EML 4106C or CI. Application of thermodynamics, chemistry, dynamics of machinery, electronics, and fluid mechanics. Topics covered are: introduction of engines, fuels and combustion, numerical modeling, ignition, fuel systems, balance of reciprocating mechanisms, and emission control of exhaust pollutants.

EML 5225 ACOUSTICS AND NOISE CONTROL (2)  

EML 5245 TRIBOLOGY (3)  

EML 5325 MECHANICAL MANUFACTURING PROCESSES (3)  
PR: CI. Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.

EML 5930 SPECIAL TOPICS III (1-4)  
PR: CC. May be repeated up to 9 credit hours.

EML 5931 SPECIAL TOPICS IV (1-4)  
PR: CC. May be repeated up to 9 credit hours.
The College of Fine Arts exists in the context of dynamic, contemporary, urban, research university setting, characterized by its cultural diversity. The College provides opportunities for students to develop their interests and talents to the fullest whether they wish to pursue creative or performing career, teaching career, or a life-long artistic enrichment.

The College's mission is to provide a broad and thorough education dedicated to (1) developing professional excellence in those who are interested in a career in the arts, (2) fostering a high level of aesthetic understanding in those preparing to teach, and (3) enriching the life and overall cultural environment of the community.

The College of Fine Arts is a unique entity housing four academic units and two academically-related units. The academic units include the School of Music and the departments of Art, Dance, and Theatre. The academically-related units are the Contemporary Art Museum and the Center for Research in Art / Graphicstudio.

Outreach Mission
The Art Department has linkages throughout the Tampa Bay area. Most recently, the College has extended its involvement in an economically distressed area near USF with the University-wide initiatives and USF Neighborhood Association.

The Dance Department is an incubator for original contemporary and traditional dance compositions and is progressively enhanced by visiting artists including members of the Charleston Ballet Theatre, The Alvin Alley Dance Company, The Indianapolis Ballet Theatre, and others. Until recently, the College hosted the Florida Dance Festival annually.

The School of Music hosted the preeminent International Society of Music Educators Conference in 1994. The Festival of Winds has a 20-year tradition of bringing in a large number of top high school musicians from all over Florida. The School of Music also hosts annual Suncoast Music Educators Forum, which draws attention from all over the country and Canada.

The Theatre Department is noted for the British International Program (BRIT), a private/public endowed partnership, that brings renowned English guest artists to create a rich learning and performing environment in north Tampa annually. The Theatre Department has extended this program into the surrounding community through performances in schools and other civic locations.

The mission of the Contemporary Art Museum focuses on fostering a creative environment for the enrichment and growth of USF students and faculty and citizens of the surrounding communities. Graphicstudio, founded in 1968 at the University of South Florida, works under a mandate to carry on a program of basic research, producing visual artwork and techniques that will contribute in a significant way to the creation of new knowledge.

The program serves the needs of a variety of constituencies, including USF students and faculty, the local Tampa Bay community, the state of Florida, and the world of art at large. In its 25-year history, Graphicstudio has been joined in its mission by over 45 leading contemporary artists from around the world. These collaborations have resulted in the completion of 350 projects, copies of which are permanently archived at the National Gallery of Art in Washington DC.

Baccalaureate-Level Degree Programs

Programs Leading to the Baccalaureate Degree

The College of Fine Arts offers four undergraduate degrees: the Bachelor or Arts (B.A.) in Art, Dance, and Theatre; the Bachelor of Music (B.M.) in Music; and the Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) in Art Education and in Music Education.

Admission to the College

Students who wish to be admitted to the College of Fine Arts with a major in one of the four academic departments should contact the intended department (or School) for an audition (or portfolio review) as early as possible. Once the student is admitted to the University and passes the audition (or portfolio review), he or she should file a declaration of major indicating the degree program. Continuing University students who wish to major in Fine Arts should also go through the audition or portfolio review process before filing a change of Major. The student must initiate this process from the College of the present major. The current academic record, then, will be transferred to the College of Fine Arts in the CFQA advising office.

Transfer students and students from other units within USF with previous college or university fine arts course credits (art, dance, music, theatre) must have such credits evaluated in addition to meeting the portfolio or audition requirements when seeking admission to the College of Fine Arts. These students are urged to make early arrangements for the necessary portfolio reviews or auditions, as well as appointments for advising, since these must take place prior to course scheduling and registration. Further, students are required to provide copies of their transcripts showing all previous college or university coursework for advising, and portfolio review and/or audition appointments. Additional information may be obtained by telephoning or writing the College's advising office or the office of the department or school of particular interest.

Advising in the College

The College of Fine Arts Office of Student Services and Advising, located in the Fine Arts building, offers a comprehensive service to all fine arts students and advice to non-majors who are interested in taking fine arts courses. The service includes portfolio reviews or auditions, as well as appointments for advising, since these must take place prior to course scheduling and registration. Further, students are required to provide copies of their transcripts showing all previous college or university coursework for advising, and portfolio review and/or audition appointments. Additional information may be obtained by telephoning or writing the College's advising office or the office of the department or school of particular interest.

The goals of the office of Student Services and Advising are:

- To help students clarify their life and career goals
- To help students develop their educational plans
- To help students select appropriate coursework
- To help students interpret institutional requirements
- To evaluate student progress toward established goals
- To facilitate total student development
- To foster the development of individual student's talent to the fullest

Graduation Requirements

1. All degree programs require 120 credit hours, with the exception of Theatre Education track (129), Music Education degree (134) and Art Education (126).

2. General Education Requirements may be satisfied by (1) completing the University's General Education Requirements, (2) completing the A.A. degree from a Florida Junior or Community College, or (3) completing the general education requirements from another Florida state university. General education courses transferred from other accredited institutions will be evaluated based on USF General Education equivalencies. The A.A. degree is in no way a requirement for acceptance into the College of Fine Arts (or into any one of its upper-level degree programs), or a requirement for graduation from University. Students admitted under the 1994/95 catalog must complete the Liberal Arts requirements of the University in lieu of the old General Distribution requirements.
3. Students admitted to the College of Fine Arts with transfer credits, or former students returning with credits dating ten or more years prior to admission (or readmission), will have those credits reviewed by the College and department/school and may be required to take specified competency tests in their major area.

4. All majors in the College of Fine Arts must take six fine arts credit hours in a field other than the major discipline. Transfer of special fine arts credits must be evaluated by the instructor. Special Fine Arts courses may be taken as S/U grading.

5. A maximum number of ROTC credits totaling no more than the maximum allowed in the Free Elective Area for each major may be counted toward all degrees.

6. A maximum of four credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward all degrees.

7. Students must complete satisfactorily the College Level Academic Skills Test CLAST and the writing and computer course requirement of 6A-10.30 (Gordon Rule).

8. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.

9. For degree programs, see requirements listed under each department.

10. A minimum of 20 credit hours in the major department must be earned in residence. This requirement, however, may be waived by the department/school based on examination (e.g., portfolio review, audition). A student must also earn 30 of the last 60 hours of credits in residence at the University of South Florida. However, any course work to be taken and any credits to be earned outside of the University must have prior approval from the appropriate department/school and the college in order to apply these credits toward graduation. Waiver of prerequisite course work totaling no more than 12 credit hours in the major or Fine Arts College requirements is possible by demonstration of competence. Unless credit is awarded by approved official tests, i.e., A.P., CLEP, the credit hours must be made up according to departmental/school or college recommendations. The review for waiver is done by faculty committee. Specific questions concerning program requirements for all degrees in the College or other related problems, should be directed to the College of Fine Arts Coordinator of Advising.

**College Policy for Academic Progress**

The following criteria will serve as the bases for disenrollment from a major in the College of Fine Arts:

1. Grade-point average below 2.0 in the major.
2. Recommendation by major applied (studio) art, dance, music or theatre faculty with approval of respective department/school chairperson/director.
3. The department may recommend probationary status (rather than disenrollment) for one semester when academic progress is not maintained.

**Contracts and Permission Procedures**

**Directed Studies Contracts:**

All Directed Studies and other variable credit courses in the College of Fine Arts require contracts between students and instructors describing the work to be undertaken by the student and specifying the credit hours. These contracts are to be completed in quadruplicate and appropriately signed. It is the student's responsibility to obtain the necessary signatures and make the required distribution of all copies. **Important:** The student must have his/her signed copy of a contract at the time of registration.

**S/U Grade Contracts:**

The College of Fine Arts requires that any S/U grading agreement entered into between student and instructor be formalized by a contract in quadruplicate signed by the student and the instructor and distributed according to instructions.

**"I" Grade Contracts:**

Incomplete must be contracted for by mutual agreement between student and instructor, with the contract describing specifically the amount and nature of the work to be completed for the removal of the incomplete grade. This contract additionally specifies the date that the work will be due (within legal time) for grading. Both the student and the instructor must sign this contract and the four copies must be distributed according to instructions. A student must not register for a course again to remove an "I" grade.

**Permission Procedures:**

Admission into some courses is possible only by consent of instructor (CI), consent of chairperson (CC), consent of adviser, or by audition or portfolio review. When such special permission is required, it will be the student's responsibility to obtain any required permission prior to registration.

**S/U Grading in the College**

1. Non-majors enrolled in courses in the College of Fine Arts may undertake such courses on an S/U basis with instructor approval. See Contracts and Permission Procedures for information concerning S/U Grade Contracts.

2. Credits earned by a non-major student with an "S" grade will not count toward the student's minimum major course graduation requirement should that student ultimately decide to become a major student in one of the four departments in the College. Instead, such credits earned with an "S" grade will be assigned to the student's Free Elective category (with the exception of music which will become non-countable).

3. Although Fine Arts majors may take coursework in their major as Free Electives, they are not entitled to the S/U grading option for these courses taken in their major subject area, even when specifically used or intended to be used as Free Electives.

4. In the College of Fine Arts, the only S/U graded courses available to a major student in his major subject area are those curriculum allowable courses designated S/U (that is, S/U only).

5. A maximum of 9 credit hours of S/U credits in non-major courses may apply towards a degree in the College of Fine Arts.

Please refer to Academic Policies section for more information concerning the University's S/U Grading policy.

**Dean's List Honors**

See Academic Policies and Procedures, Programs and Services.

**Interdisciplinary Study**

There is no formal interdisciplinary arts degree offered in the College of Fine Arts. However, it is possible for a student to pursue such a program of study in the College by utilizing free electives allowed in the major program. A student may also choose a double undergraduate major in two departments within the College of Fine Arts as a means of interdisciplinary study. See the major adviser in the programs of particular interest.

**Minors Program**

The College of Fine Arts offers minor programs in Art, Dance, Music, Theatre. Majors in the College of Fine Arts may pursue a minor in any certified minors program at USF except within the same department/school as the major. The requirements for these programs are located under the departmental/school academic program descriptions. For University Minor Policy, consult that section in the catalog.
PROGRAMS AND CURRICULA

ART (ART)

• Departmental Requirements for the B.A. Degree

The Art curriculum is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life and to assist students in the realization of personal ideas and imagery. Most B.A. recipients interested in college teaching, museum or gallery work, fine or commercial studio work pursue the extended discipline and experience offered at the graduate level.

Although the Art program allows many possible courses of study, most art majors will select one area of emphasis chosen from the course offerings listed.

The major concentrations, or areas of emphasis, available to undergraduate (B.A. seeking) art students are: Painting, Sculpture, Ceramics, Electronic Media (Computer Image, Video), Printmaking, Photography, Art History and Theory, and Art Education. Art majors must receive a grade of "C" or better in all art courses.

Transfer studio credit will be accepted on the basis of portfolio and transcript evaluation. The Art Department will accept all Florida state programs that are part of the "Common Prerequisites."

For additional requirements see Graduation Requirements, College of Fine Arts.

ART STUDIO B.A. DEGREE

I. Art Preparation (Requires a "C" or better in all courses taken to progress to courses numbered 3000 and up)

ART 2050 History of Visual Art I 3 hours
ART 2051 History of Visual Art II 3 hours
ART 3001 Introduction to Art 4 hours
ART 2201C Fabrications 4 hours

TOTAL 14 hours

II. Beginning Studio Workshops

A minimum of 12 hours from the following Beginning Studio Workshops is required. These courses may not be repeated. These courses are pre-requisites to the upper level Advanced Studio Workshops and Studio Theme Courses.

ART 2301C Beginning Drawing 3 hours
ART 2400C Beginning Printmaking 3 hours
ART 2510C Beginning Painting 3 hours
ART 2710C Beginning Sculpture 3 hours
ART 3110C Beginning Ceramics 3 hours
ART 3222C Beginning Electronic Media 3 hours
FIL 2200C Beginning Film 3 hours
PGY 2401C Beginning Photography 3 hours

TOTAL 12 hours

III. Advanced Studio Workshops

A minimum of 3 hours from Advanced studio courses:

Pre-requisites may apply for some upper level studio courses (see catalog). Students may take up to 15 hours of Advanced Studio Workshops.

ART 2111C Advanced Ceramics 3 hours
ART 2520C Advanced Painting 3 hours
ART 2702C Advanced Sculpture 3 hours
ART 4223C Advanced Electronic Media 3 hours
ART 4320C Advanced Drawing 3 hours
ART 4420C Advanced Printmaking 3 hours
FIL 4520C Advanced Film 3 hours
PGY 2410C Advanced Photography 3 hours

TOTAL 3 hours

IV. Theme Studios

A minimum of 6 hours from selected Theme Studio courses which are team taught by two or more faculty from different media disciplines. Topics may include space/time, body, social context, mythologies, etc. May be repeated for up to 12 hours.

TOTAL 6 hours

V. Art History

A minimum of 12 hours in the following history courses:

ARH 4100 Prehistoric & Ancient 4 hours
ARH 4170 Greek & Roman 4 hours
ARH 4200 Medieval 4 hours
ARH 4301 Renaissance 4 hours
ARH 4350 Baroque and Rococo 4 hours
ARH 4430 19th Century 4 hours
ARH 4450 20th Century** 4 hours
ARH 4520 African 4 hours
ARH 4530 Oriental 4 hours
ARH 4796 Critical Studies 4 hours

TOTAL 12 hours

*4 hours may be taken in critical studies seminars either ARH 4790 or ARH 4796
**ARH 4450 is required of all majors and should be taken simultaneously with the Advanced Studio Workshops and Theme Studios

VI. Additional Requirements

ART 4955 Senior Projects* 2-4 hours
ART 3939 The Real World** 2 hours
Expanded Contexts*** 2-4 hours

TOTAL 6 hours

VII. Recommendations

Students are encouraged to take additional credits in the Studio Workshops and Theme Studio Courses to fulfill art electives. Honors studio courses are offered every semester and can be used to complete studio electives.

TOTAL ART HOURS 53 hours

Total Semester Hours for the B.A. degree in Art Studio:

General Education 36 hours
Exit Requirements 9 hours
Free Electives 16 hours
(Max. 6 hrs ART)
Special Requirements 6 hours
Art Requirements 53 hours

TOTAL 120 Hours

Note: All Students earning a B.A. degree in Fine Arts must complete the Foreign Language Requirement.

ART HISTORY B.A. DEGREE

I. Art Preparation (Requires a "C" or better in all courses taken to progress to courses numbered 3000 and up)

ARH 2050 History of Visual Art I 3 hours
ARH 2051 History of Visual Art II 3 hours
ARH 3001 Introduction to Art 4 hours
ART 2201C Fabrications 4 hours

TOTAL 14 hours

II. Art History Required Courses

ART 4450 20th Century 4 hours
ART 4937 Seminar in the History of Art History 4 hours
(This course is only offered in the Fall Semester)

TOTAL 8 hours

Plus: Minimum of 12 hours in the following history courses:

III. Art History Survey

ART 4100 Prehistoric & Ancient 4 hours
ART 4170 Greek & Roman 4 hours
ART 4200 Medieval 4 hours
ART 4301 Renaissance 4 hours
ART 4350 Baroque and Rococo 4 hours
ART 4430 19th Century 4 hours
ART 4450 20th Century* 4 hours
ART 4520 African 4 hours
ART 4530 Oriental 4 hours

TOTAL 12 hours

*ARH 4450, 20th Century is required of all art history majors.
IV. Art History Critical Studies

ARH 4796 Critical Studies in Art History
(A minimum of 12 credit hours)

TOTAL 12 hours

V. Plus

Expanded Contexts: required of all majors

2 hours

(Registered City Program, Paris Program, Public Art, Museum Internships, Community Art, Artists Internship/Apprenticeships)

TOTAL 2 hours

VI. Recommendations

Students are encouraged to take additional credits in Art History critical studies courses and Art History survey courses. The courses offered in Photo History and Film and the Avant Gard are recommended to Art History majors as courses to be used to complete Art History electives.

TOTAL ART HISTORY 48 hours

Total semester Hours for the B.A. degree in Art History

General Education

36 hours

Exit Requirements

9 hours

Free Elective

21 hours

(Max. 10 hrs in Art)

Special Requirements

6 hours

Art Requirements

48 hours

TOTAL 78 hours

Note: All Students earning a BA degree in Fine Arts must complete the Foreign Language Requirement

• Requirements for the Academic Minor in Art

Course distribution and requirements:

<table>
<thead>
<tr>
<th>Studio Concentration</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of hours required: 23 hours minimum</td>
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</tr>
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I. Art Area Preparation

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>ARH 2050 History of Visual Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051 History of Visual Art II</td>
<td>3</td>
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<tr>
<td>ARH 3001 Introduction to Art</td>
<td>4</td>
</tr>
<tr>
<td>ART 2201C Fabrications</td>
<td>4</td>
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TOTAL 14 hours

II. Art Studio

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Beginning Studio Workshop</td>
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</tr>
<tr>
<td>Advanced Studio Workshop</td>
<td>3</td>
</tr>
<tr>
<td>Theme Studios</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 9 hours

Art History Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050 History of Visual Art I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051 History of Visual Art II</td>
<td>3</td>
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<tr>
<td>ARH 3001 Introduction to Art</td>
<td>4</td>
</tr>
<tr>
<td>ART 2201C Fabrications</td>
<td>4</td>
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</table>

TOTAL 14 hours

II. Art History

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>20th Century Art</td>
<td>4</td>
</tr>
<tr>
<td>Art History Survey 4</td>
<td>4</td>
</tr>
</tbody>
</table>

TOTAL 8 hours

Prerequisites (State Mandated Common Prerequisites)

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured from the university advisor listed above. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continu-
COLLEGE OF FINE ARTS
UNIVERSITY OF SOUTH FLORIDA - 1998/99 UNDERGRADUATE CATALOG

Plus two of the following courses:
ART X510 Painting
ART X400 Printmaking
ART X100 Crafts

At least one course taken to meet the natural science requirements in General Education must include a laboratory.

Visiting Artists and Artist-In-Residence

The Art Department is widely known for the consistent level of excellence of its programs. Aside from the contributions of its permanent staff, and to insure the continuing expansion of learning opportunities available to students, the Art Department has brought to the campus internationally known artists and lecturers such as Alice Aycock, Linda Benglis, Jack Burnham, James Casebere, Robert Colescott, Michael Dvortcsak, Edward Fry, Adam Gopnik, The Guerrilla Girls, Nancy Holt, Barbara Kruger, Donald Kuspit, Alfred Leslie, Komar and Melamid, Marlon Riggs, Tim Rollins, Alison Saar, Lorna Simpson, Miriam Shapiro, Robert Stockhouse, Sidney Tillum, Martha Wilson, and Elyn Zimmerman.

USF CONTEMPORARY ART MUSEUM

The USF Contemporary Art Museum (CAM) is recognized as one of the leading cultural institutions in the state by the State of Florida Cultural Institutions Program. The USF CAM brings vital, investigative, and scholarly exhibitions of contemporary art to the University and Tampa Bay Community. Artists Matt Mullican, Robert Stockhouse, Pat Steir, Tyler Turkel, Robin Winters, as well as internationally recognized artists from Africa, Europe, and Latin America, such as Leo Coper, Patrick Corillon, Alfredo Jaar, Antonio Martorelli, Pepon Osorio, and Peter Weibel. The Museum also houses the University's art collection with exceptional holdings in graphics, sculpture, multiples, and recent photography. The Museum is actively engaged in commissioning and exhibiting an architecturally and thematically related public art projects designed to enhance the public spaces on the USF campus.

Recent projects include works by Dale Eddle, Richard Fleischner, Doug Hollis, Nancy Holt, Ned Smyth, and Elyn Zimmerman. USF CAM organizes symposia, lectures, workshops, and visiting artist presentations to engender interest in contemporary art, educate the public and facilitate the exchange of ideas among artists, museum members, experts in the art field, and the community. The exhibition, educational programs, and art collection serve as an integral part of the studio and art history curriculum of the Art Department and other liberal studies areas while enhancing the cultural vitality of the campus and Tampa Bay communities.

DANCE (DAN)

Pending approval by the Board of Regents, the Dance Department will offer a B.F.A. degree effective Fall, 1998, with the requirements listed below. The dance program offers professional preparation through a curriculum of study within three degree options: B.F.A. in Dance Performance; B.A. in Dance Studies; B.S. in Dance Education. There is an expressed commitment to the development and production of original creative works as extensions of studio/classroom experiences, of faculty research, and in interaction with guest artists.

The presentation of dance in concert is essential to the educational mission, and provides students and the community with frequent opportunities for expanding aesthetic experiences.

Through intensive study in dance technique, creative studio studies and dance theory, students are prepared for careers in performance, choreography, and education. Additional preparation in graduate programs may lead to opportunities in Dance Sciences/Medicine, Dance Therapy, Arts Management, Performance, Choreography, or Interdisciplinary Studies.

Admission to the Dance Department is contingent upon acceptance by the University and successful completion of a performance audition. Students must complete the audition prior to Orientation and registration for Dance courses.

- Requirements for the B.F.A. Degree Performance Concentration

Modern Dance Focus

Studio Technique (34 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DAA 3105 Modern III</td>
<td>6</td>
</tr>
<tr>
<td>DAA 3205 Ballet III</td>
<td>6</td>
</tr>
<tr>
<td>DAA 3344 World Dance</td>
<td>2</td>
</tr>
<tr>
<td>DAA 3400 Repertory</td>
<td>6</td>
</tr>
<tr>
<td>DAA 4106 Modern IV</td>
<td>8</td>
</tr>
<tr>
<td>DAA 4920 Dance Studies</td>
<td>6</td>
</tr>
</tbody>
</table>

Students are expected to maintain continuous enrollment in Studio Technique (8 semesters)

Creative Studio (17 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAA 2430 Performance*</td>
<td>6</td>
</tr>
<tr>
<td>DAA 3704 Dance Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>DAA 2700 Choreography I</td>
<td>2</td>
</tr>
<tr>
<td>DAA 3701 Choreography II</td>
<td>2</td>
</tr>
<tr>
<td>DAA 4702 Choreography III</td>
<td>2</td>
</tr>
<tr>
<td>DAA 4703 Choreography IV</td>
<td>2</td>
</tr>
<tr>
<td>DAA 4790 Senior Choreographic Project</td>
<td>1</td>
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</table>

*Concurrent enrollment in Dance Technique

Dance Theory (24 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DAE 4362 Dance Pedagogy: Secondary Curriculum and Methods</td>
<td>3 or</td>
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<tr>
<td>DAE 4371 Dance Pedagogy: Pre-School and Elementary Methods</td>
<td>3</td>
</tr>
<tr>
<td>DAN 2933 Entry Seminar</td>
<td>2</td>
</tr>
<tr>
<td>DAN 2610 Music for Dance I</td>
<td>2</td>
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<td>DAN 2611 Music for Dance II</td>
<td>2</td>
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<tr>
<td>DAN 3590 Practicum in Dance</td>
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<tr>
<td>DAN 3730 Kinesiology</td>
<td>3</td>
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<tr>
<td>DAA 4111 Dance History Through the 19th Century</td>
<td>3</td>
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<tr>
<td>DAA 4112 20th Century Dance History</td>
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<tr>
<td>DAA 4170 Dance Senior Seminar</td>
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<tr>
<td>TPA 2223 Thearecracts Lighting</td>
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Ballet Focus

Studio Technique (36 semester hours)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>DAA 3205 Ballet III</td>
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<tr>
<td>DAA 3220 Pointe</td>
<td>2</td>
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<tr>
<td>DAA 3344 World Dance</td>
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<td>DAA 3400 Repertory</td>
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<tr>
<td>DAA 4106 Modern III</td>
<td>6</td>
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<tr>
<td>DAA 4206 Ballet IV</td>
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<tr>
<td>DAA 4920 Dance Studies</td>
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</table>

Students are expected to maintain continuous enrollment in Studio Technique (8 semesters)

Creative Studio Studies (17 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>DAA 2480 Performance*</td>
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<tr>
<td>DAA 2700 Choreography I</td>
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<tr>
<td>DAA 3701 Choreography II</td>
<td>2</td>
</tr>
<tr>
<td>DAA 3704 Dance Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>DAA 4702 Choreography III</td>
<td>2</td>
</tr>
<tr>
<td>DAA 4703 Choreography IV</td>
<td>2</td>
</tr>
<tr>
<td>DAA 4790 Senior Choreographic Project</td>
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</table>

*Concurrent enrollment in Dance Technique

Dance Theory (24 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DAE 4362 Dance Pedagogy: Secondary Curriculum and Methods</td>
<td>3</td>
</tr>
<tr>
<td>DAE 4371 Dance Pedagogy: Pre-School and Elementary Methods</td>
<td>3</td>
</tr>
<tr>
<td>DAN 2933 Entry Seminar</td>
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<tr>
<td>DAN 2610 Music for Dance I</td>
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<tr>
<td>DAN 2611 Music for Dance II</td>
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<tr>
<td>DAN 3590 Practicum in Dance</td>
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<tr>
<td>DAN 3730 Kinesiology</td>
<td>3</td>
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<tr>
<td>DAA 4111 Dance History Through the 19th Century</td>
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<td>DAA 4112 20th Century Dance History</td>
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<tr>
<td>DAA 4170 Dance Senior Seminar</td>
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<tr>
<td>TPA 2223 Thearecracts Lighting</td>
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• B.A. Degree in Dance Studies

The B.A. in Dance Studies is designed to provide students with a comprehensive core of study in dance (Technique, Creative Studio Studies, Theory) while encouraging the development of an individualized program of study through the selection of general education requirements as well as a focused selection of elective courses. The selection of electives should be designed to provide each student with the maximum value of a liberal arts education within a focused area of study.

**Studio Technique (20 semester hours)**

- DAA 2104 Modern II 6
- DAA 3204 Ballet II 6
- DAA 3105 Modern III 6 or
- DAA 3205 Ballet III 6
- DAA 3344 World Dance 2

**Creative Studio Studies (13 semester hours)**

- DAA 2480 Performance* 2
- DAA 2700 Choreography I 2
- DAA 2704 Dance Improvisation 2
- DAA 3701 Choreography II 2
- DAA 4702 Choreography III 2
- DAA 4703 Choreography IV 2
- DAN 4906 Directed Study 1

*Concurrent enrollment Dance Technique

**Dance Theory (23 semester hours)**

- DAN 2610 Music for Dance I 2
- DAN 2611 Music for Dance II 2
- DAN 2933 Entry Seminar 2
- DAN 3590 Practicum in Dance 1
- DAN 3730 Kinesiology 3
- DAN 4170 Dance Senior Seminar 2
- DAN 4111 Dance History Through the 19th Century 3
- DAN 4112 20th Century Dance History 3
- DAA 2700 Choreography I 2
- TPA 2223 Theatrecrafts: Lighting 3

**B.S. Degree in Dance Education**

The Dance Education Curriculum is designed for students who wish to develop a high level of expertise in dance and have a commitment to the development of individual potential in others. The Curriculum is designed to meet the requirements for certification in Dance Education K-12 in the State of Florida.

Admission to Dance Education is contingent upon application to the program, successful audition in both Ballet and Modern Dance Technique, and acceptable academic standards (See University Requirements. Note: Students on academic appeal/probation may not be considered for Dance Education Specialization until successful completion of their Sophomore year.

Dance Education Students are expected to maintain a 3.0 in all Dance Major courses and an overall 2.5 GPA to be admitted to the College of Education/Professional Preparation Courses of Study. (See Special Requirements for admission and internship established by the College of Education.) Students are expected to maintain this grade point average through the completion of the Internship in Dance Education.

In order to be admitted to Dance Education Specialization, students must participate in a selective admissions procedure. Enrollment in the program is limited and students can only enter during Semester I of each year.

In addition to applying to the University, students must also apply directly to the Department of Dance before March 1 for priority admission consideration. Students applying after May 1 will be accepted only on a space available basis. Requests for admission to the Dance Education Specialization should be directed to:

Dr. Timothy Wilson, Chairman
Department of Dance
College of Fine Arts
University of South Florida
4202 E. Fowler Ave. FAD 204
Tampa, FL 33620

**Studio Technique (14 Semester hours minimum)**

Note: Of the 12 hours in Ballet and Modern Dance, 6 hours must be in Ballet; 6 hours must be in Modern Dance; and at least 3 of these hours must be at level III or IV. Based on the student's progress in technique development, courses may include:

- DAA 2104 Modern II 3
- DAA 3105 Modern III 3
- DAA 3204 Ballet II 3
- DAA 3205 Ballet III 3
- DAA 4106 Modern IV 4
- DAA 4206 Ballet IV 4

**Additional Required Studio Technique Courses Include:**

- DAA 4930 Survey Ethnic/Folk Dance 2

**Creative Studio Studies (10 semester hours)**

- DAA 2700 Ballet III 2
- DAA 3701 Choreography II 2
- DAA 3704 Dance Improvisation 2
- DAA 4702 Choreography III 2
- DAA 4703 Choreography IV 2
- DAA 3480 Jr. Performance Project 1
- DAA 2480 Performance 1

**Dance Theory (21 semester hours)**

- DAN 2610 Music for Dance I 2
- DAN 2611 Music for Dance II 2
- DAN 2933 Entry Seminar 2
- DAA 3420 Movement Analysis 2
- DAN 3730 Dance Kinesiology 3
- DAN 4111 Dance History Through the 19th Century 3
- DAN 4112 20th Century Dance History 3
- TPA 2223 Theatrecrafts Lighting 3

**Professional Preparation**

- EDF 3604 Social Foundations of Education 3
- OR 3542 Philosophy of Education 4
- EDF 3122 Learning and the Developing Child 4
- OR 3214 Human Development and Learning 3
- EDG 4620 Curriculum and Instruction 3
- EDF 4430 Measurement for Teachers 3
- DAE 4362 Dance Pedagogy: Secondary Curriculum and Methods 3
- DAE 4371 Dance Pedagogy: Pre-K and Elementary Methods 3
- DAE 4942 Internship in Dance 10
- DAE 4176 Seminar in Dance Education 2

**Dance Minor Program**

The Dance Minor is designed to provide students with a scope of experiences in dance which include studio technique, creative studio studies and dance theory. The student selecting a Dance Minor should arrange to meet with the academic advisor in dance.

**Studio Technique (10 semester hours)**

Select 10 credits from:

- DAA 2260 Ballet I 2
- DAA 3204 Ballet II 3
- DAA 3205 Ballet III 3
- DAA 4206 Ballet IV 4
- DAA 2160 Modern Dance I 2
- DAA 2104 Modern Dance II 3
- DAA 3105 Modern Dance III 3
- DAA 4106 Modern Dance IV 4
- DAN 3502 Jazz Dance 2
- DAA 4930 African Dance 2

(Studio Dance courses may be repeated only once toward the Dance Minor.)

**Creative Studio Studies (4 semester hours)**

Select 4 credits from:

- DAA 2700 Choreography I 2
- DAA 2704 Dance Improvisation 2
2. DAA 3701 Choreography II 2
   Dance Theory (6 semester hours)
   Select 6 credits from:
   DAN 2100 Introduction to Dance 3
   DAN 4111 Dance History Through the 19th Century 3
   DAN 4112 19th & 20th Century Dance History 3
   Dance Electives (4 semester hours) 24

Department Policy For Academic Progress
Among elective hours, 6 credit hours of dance electives may apply toward the Dance Degree. Nine elective hours must be taken outside of the Dance Department. Of the 6 hour Special College of Fine Arts requirement TPA 2223 may count as 3 of those hours.

All dance majors are required to participate in production practicum during their first year in the program. Junior dance majors are required to perform in a work created by one of the Seniors. Senior dance majors are required to choreograph a group work and choreograph and/or perform a solo in fulfillment of the requirement for Senior Choreographic Project. Senior Project is designed to occur over two semesters.

Placement to all major technique courses is by faculty audition. Until the student is accepted into Modern Dance III or Ballet III he/she will be considered as a probationary dance major.

DAA 2104 or DAA 2204 may be repeated only once for credit toward degree requirements.

Prospective majors must contact the dance department to arrange for an audition prior to registration.

Critiques
1. All students will be evaluated periodically at faculty sessions as well as critiqued each semester; majors will be advised accordingly.
2. If a student evidences deficiency in some area or in continuing progress toward the degree, the student may be placed on probation within the department.
3. Failure to make satisfactory progress after being placed on probation the following semester shall constitute grounds for Departmental recommendation to drop and discontinue the major.

Minimum Grade for Dance Courses
A student must receive a "C" grade or better in required major courses. Should a student fail to do so, the course(s) in which the student received a "D" or "F" must be repeated and a "C" grade or better earned.

Additional Standards
In addition to meeting the specific requirements and standards discussed above, the student and adviser will periodically evaluate the student's general progress. A less-than-satisfactory rating in one or more of the following areas could place the student on probation. A student on probation is given a specific amount of time to achieve a satisfactory rating before being dropped from the major program. The criteria are:
1. Adequate technical skill and adaptability.
2. Evidence of creative potential.
3. "B" average in major studio classes.
4. Good health which includes adequate control of body weight.

Class probation and department probation require review, i.e., reinstatement in good standing or recommendation to drop major.

A dance major is expected to keep his/her weight at a level that is aesthetically acceptable for classroom training and all performances.

For other non-major requirements see both Fine Arts College requirements and the University's General Distribution and graduation requirements.

Prerequisites (State Mandated Common Prerequisites)
Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured from the university advisor listed above. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted.

Unless stated otherwise, a grade of "C" is the minimum acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

DAN 1603 Music for Dance
or DAN 2610 Music for Dance I
TPA 2200 Theatrecrafts: Stagecraft
or TPA 2223 Theatrecrafts: Lighting
or TPA 2200 Theatrecrafts: Costume
DAA X200-X209 Ballet Techniques, 9 semester hours
DAA X200-X209 Modern Techniques, 9 semester hours

Although credit toward the major will be given for these courses, placement in upper level technique classes will continue to be based on individual proficiency. Other technique courses in other styles of dance may be accepted toward the major on a case-by-case basis at the discretion of the University.

Students are encouraged to complete the following required courses and/or electives (if available) during the program of study at the community college.

Modern Concentration-Dance Required Courses:
Modern Dance Technique 12
Composition (Designing, Dance Movement, Choreography) 2
Basic Stage Lighting 2
Dance electives (e.g., jazz, ethnic presented for advisor's evaluation) 2

Ballet Concentration-Dance Required Courses:
Ballet Technique 12
Composition (Designing, Dance Movement, Choreography) 4
Basic Stage Lighting 2
Dance electives (e.g., jazz, ethnic presented for advisor's evaluation) 4
Transfer dance credits must be presented for evaluation by faculty and dance advisor at time of entrance.

Visiting Artists and Artists-in-Residence
By supplementing its excellent ongoing regular staff-instructed dance curriculum with other professional resources made available through the Visiting Artist and Artist-in-Residence programs, the Dance department provides for dance students an overall dynamic program for practice, study, and learning.

MUSIC (MUS)

- The B.M. Degree (Performance, Composition and Jazz Studies)
The music curriculum is designed for students gifted in the performance and/or composition of music. Candidates for a major in music are required to pass an entrance audition in their respective performance areas. Composition candidates are required to submit appropriate scores and/or tapes of their compositions for faculty appraisal. All students admitted to the degree program must pass a music theory diagnostic examination prior to scheduling music theory classes. Students may
obtain dates and times for these examinations from the School of Music. Academic programs offered include: Bachelor of Music in Performance (voice, organ, piano, piano pedagogy, and orchestral instruments), Composition, and Jazz Studies (composition and performance).

General Requirements
All students seeking a Bachelor of Music degree are required to (1) complete successfully the piano proficiency (jazz piano proficiency required instead for all jazz majors) and music theory-history-literature requirements; (2) present a partial recital during the junior year (except composition majors); (3) present a full recital during the senior year (except music education majors); (4) present a record of satisfactory academic attendance through registration in MUS 2010 (see the specific requirements for MUS 2010 as set by the music faculty). Students must be enrolled in applied music studio during the semester of the recital. Other procedures are mandated through the student handbook of the School of Music. Exceptions to all departmental procedures must be authorized through the Director of the School of Music.

Promotion to the next higher level in applied music is made only upon the recommendation of a performance jury conducted by that concentration's faculty. Where appropriate for the degree, the student is required to complete a minimum of two semesters, but no more than three semesters at the 2000 or 3000 level of applied music. Failure to complete these levels within the three semester maximum brings automatic dismissal from the program. Students may repeat the 4000 level as necessary to fulfill the total credit hour requirement (3000 level for composition or music education). Credit for only 2 semesters of applied music at the 1000, 2000, or 3000, levels will be applied toward the degree.

Core Requirements for all Performance, and Composition Concentrations

Music Theory (22)

Music History (8)

Music Literature (3)

Music Electives (12-13 hours)

Fine Arts Requirement (6 hours)

Music majors should take one 3-hour Fine Arts course certified in Historical Perspectives and one 3-hour Fine Arts course certified in the Fine Arts Perspective of the Liberal Arts Curriculum in order to graduate within 120 semester credit hours.

Core Requirements for Jazz Studies Performance and Jazz Studies Composition Concentrations

Music Theory (26)

Music Literature (3)

Music History (9)

Conducting (2)

Senior Seminar (1)

Elective Seminar (1)

Additional Requirements for Specific Concentrations

Performance Concentration
A total of 24 credit hours of applied music major is required with a minimum of 6 hours to be completed at the 4000 level and concurrent registration in MUS 2010 (Recital Attendance). Performance majors in voice must "elect" to enroll for MUS 3201 for a total of 3 credits as a part of the Music Electives and MUS 3501 for 2 credits as a part of the Ensemble hours. Additionally, there is a program exit requirement of earned credit or the equivalent in beginning French, German, and Italian languages. Performance majors in piano are required to "elect" to enroll in MVK 4640 for 4 credits as a part of the Music Electives.

The following requirements for the piano pedagogy emphasis are to be taken as a part of the Music Electives:

MVK 4640 (4)
MVK 4641 (4)

Junior and senior recital requirements may be fulfilled in one of the following ways; (1) lecture/recital, (2) ensemble performance, (3) recital.

Jazz Studies Concentration

Performance Emphasis
The following courses are required in addition to the core requirements:

MUT 3663 (2)
MUT 3664 (2)

Applied music (major) through the 3000 level (min. of 18 hours)

The first 4 semesters and a sophomore level jury are under the guidance of the traditional applied faculty for all students. After which they will move from that studio to the studio of the Associate Director of Jazz Studies for their junior and senior semesters of applied studies.

Jazz piano proficiency required.

Composition Emphasis
The following courses are required in addition to the core requirements:

MUC 2221 (6)
MUC 4204 (3)

Elective Composition (6)

Applied music (principal) with a minimum of 4 hours at the 2000 level.

Jazz piano proficiency required.

Composition Concentration
All students seeking a degree in music with a composition concentration are required to fulfill the senior composition requirements (with the approval of the entire composition faculty) in one of the following ways; (a) a complete public performance of works by the student composer; (b) the public performance of several compositions in various concerts throughout the composer's senior year; (c) the formal presentation to the composition faculty of an extensive portfolio of compositions plus the public performance of at least one of these works during
the senior year, or (d) in other ways designated by the composition faculty.  

Applied Music (Principal) (8)  

A minimum of 8 credit hours of applied music is required with a minimum of 4 credit hours at the 2000 level and concurrent registration in MUS 2010 (recital attendance).  

Composition Courses (24)  

MUC 2301 (3)  
MUC 2221 (3)  
MUC 3231 (3,3)  
MUC 3401 (3)  
MUC 3402 (3)  
MUT 4241 (3)  
MUT 4311 (2)  
MUT 4312 (2)  

For other degree requirements for all the above concentrations, see Fine Arts College requirements and the University's General Education and graduation requirements.  

Prerequisites (State Mandated Common Prerequisites)  

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured from the university advisor listed above. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university's entering freshmen requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.  

A music theory placement examination will be administered prior to initial registration in the music theory course sequence. This examination is diagnostic and is used for advising purposes. Auditions for admission, level-ranking, and determination of USF credit hour requirements in applied study in the music performance program must be arranged through the School of Music. Secondary piano proficiency audition but credit hours are not required. Other secondary instruments will not apply toward performance or composition programs but may be applicable toward the Music Education degree (see Music Education program).  

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.  

MUT 1111 Music Theory  
or MUT 1121, 1122, 2126, or 2127  
MUT 1112 Music Theory  
or MUT 1121, 1122, 2126, or 2127  
MUT 2116 Music Theory  
or MUT 1121, 1122, 2126, or 2127  
MUT 2117 Music Theory  
or MUT 1121, 1122, 2126, or 2127  
MUT 1241 Aural Theory  
or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277  
MUT 1242 Aural Theory  
or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277  
MUT 2246 Advanced Aural Theory  
or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277  
MUT 2247 Advanced Aural Theory  
or MUT 1221, 1222, 2226, 2227, 1261, 1261, 2266, 2267, 1271, 1272, 2276, or 2277  
MUNXXXX Chamber Music Ensemble, 4 semester hours  
MVX1X1 Secondary Applied Music Courses, 2-4 semester hours  
MVX2X2 Secondary Applied Music Courses, 2-4 semester hours  

Secondary Piano Proficiency by Examination  
or MVK 1111, 1112, and 2122  
or MVK 1111, 1112r, 2121r, and 2121r  
or MVK 1211 and 2221  

Electives: Music credits beyond those required may be used as program electives.  

MUSIC EDUCATION  

- Requirements for the B.S. Degree (MUE):  

The music education curriculum is designed to serve students who wish to develop a high level of musical expertise and have a commitment to help develop similar musical potential in other people.  

All students seeking a degree in music education are required to pass an audition in their respective performance area and to take a music theory placement test prior to registering for any music theory class. Students may obtain the dates for these examinations from the music office.  

Special requirements for all music education majors; successful completion of the piano proficiency requirements as defined by the music and music education faculties; participation in a major performing ensemble each semester the student is enrolled in applied music; and the presentation of a one-half hour recital in the major performing medium during the last semester of enrollment in applied music.  

Students are to present a record of satisfactory recital attendance through registration in MUS 2010 (see the specific requirements for MUS 2010 as set by the music faculty). Note exceptions applicable to this program.  

Professional Education Requirements (course descriptions can be found in the College of Education portion of this catalogue)  

Lower Division  

EDG 2701 Teaching Diverse Populations  
EDF 2005 Introduction to Education and Field Experience  
*EME 2040 Introduction to Educational Technology  

Upper Division  

EDF 3214 Human Development and Learning  
EDF 3604 Social Foundations of Education  
EDF 4430 Basic Concepts of Educational Measurements  
EEX 4070 Exceptional Students  
MUE 4936 Senior Seminar  
MUE 4940 Internship  

* Students demonstrating computing proficiency may be excused from this course with the approval of the Music Education faculty. Students may substitute a course in computer applications in music for EME 2040.  

Music Education courses (32-34 hours)  

MUE 2090 (3)  
MUE 3421 (1)  
MUE 3422 (1)  
MUE 3423 (1)  
MUE 4311 (3)  
MUE 4330 (3)  
MUE 4331 (3)  
MUE 4332 (3)  
MUE 4936 (3)  
MUE 4940 (9)  
MUE 3450 (1)* and/or (depending on professional focus)  
MUE 3451 (1)  
MUE 3460 (1)** and/or (depending on professional focus)  
MUE 3461 (1)  

* Not required of woodwind majors  
** Not required of brass majors  

Music courses (30+ hours)  

MUL 2111 (3)*  
MUG 3101 (2)  
MUH 2051 (3)**  
MUH 3301 (3)***  
MUH 3302 (3)***  
MUE 1111 (3)  
MUT 1241 (3)  
MUT 1242 (1)  
MUT 2116 (3)  
MUT 2117 (3)  
MUT 2246 (1)  

* This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.  
** This course also satisfies 3 hours of ALAMEA Perspectives in the Liberal Arts Curriculum.  
*** Either course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.
Applied Music (Principal) 12 cr. hrs. with a minimum of 4 hours at the 3000 level and concurrent registration in MUS 2010. Music electives (3-5 hours)

Applied Music Secondary Techniques (2-3 hours)
MVF 1211, MVS 1211. One hour of choral ensemble is required for all non-voice majors.

Major performing ensembles (6 hours)
Minimum of one per semester of applied music

Graduating recital
Piano proficiency requirement
Fine Arts Elective (3 hours)

Music Education program) .

prior to USF entering freshman requirements of the university's entering freshman requirements, which include the following prerequisite courses. Every student wishing to transfer without an A.A. degree and has fewer than 60 semester hours to the university. A minimum of 11 hours to the university. A minimum of 840 SAT or 22 on the ACT.

Admission/General Psychology and Sociology are recommended.

Music students must be accepted by audition in their performance area by the School of Music. A music theory placement examination will be administered prior to initial registration in the music theory course sequence.

The Faculty
The music faculty is made up of outstanding musicians and scholars whose talents and achievements provide a unique educational resource for all music students. Faculty ensembles such as the Ars Nova Quintet, the Faculty Jazz Quartet, and the Metropolitan Arts Trio provide an important musical contribution to campus and Tampa area cultural life, and many music faculty perform in professional music ensembles across west central Florida.
Student Organizations
Sigma Alpha Iota, Phi Mu Alpha Sinfonia, and Pi Kappa Lambda honorary music organizations maintain active chapters in the School of Music. Additionally, chapters of the College Music Educators National Conference and International Association of Jazz Educators provide an important liaison with other professional musicians and teachers.

Financial Aid
A significant number of students studying in the School of Music qualify for some degree of financial assistance. Financial aid is offered on the basis of talent, academic promise, and need. Students awarded financial assistance from the School of Music need not pursue a degree in music, but must follow specific guidelines concerning the awarding of monetary assistance. These guidelines are available from the Director of the School of Music. Write to the School of Music for specific dates each year. In addition to general university and School of Music scholarships, there are a number of donated awards. Among these are the Dawn Zimmerman Flute Scholarship, Mary Corey Bogdonas Scholarship, Steve Penovich Scholarship, Marjorie Rose Cell Scholarship, Zbar Piano Award, and the Virginia A. Bridges Music Education Award.

Visiting Scholars, Artists, and Artists-in-Residence
The School of Music utilizes guest composers, conductors, and performing musicians to enhance its offerings in terms of teaching faculty, forum appearances, and the conducting of musical programs, symposia, and clinics. Some prominent musicians who have appeared in the past are: Norman Dello Joio, Olly Wilson, Randall Thompson, Guarneri String Quartet, Virgil Thompson, Beaux Arts Trio, Walter Trampler, Boris Goldovsky, Fred Hemke, Gregg Smith, Lukas Foss, Norman Luboff, Maurice Andre, Phil Woods, Jean Pierre Rampal, David Baker, Adele Adison, John Cage, Byron Janis, Karel Husa, Louis Bellson, Leslie Bassett, David Diamond, Samuel Adler, Julius Baker, Gunther Schuller, Ransom Wilson, Robert Merrill, T. J. Anderson, Doc Severinsen, Hale Smith, Bethany Beardslee, George Russell, Robert Shaw, Art Blakey, Toshiko Akiyoshi, Andre Watts, Christopher Hogwood, Howard Gardner, Edwin Gordon, Peter Webster, Bennett Reimer, David Elliott, and Elliot Elsner.

THEATRE (TAR)
The Department Major
The Department of Theatre is fully accredited by the National Association of Schools of Theatre (NAST). Through its curriculum, professional program, the Department of Theatre offers seriously interested students the opportunity to prepare themselves, within a liberal arts atmosphere, for a professional career in the theatre; or to continue their studies at the graduate level.

For over 30 years, our exclusively undergraduate program has prepared critically aware and skilled theatre practitioners who have used what they have learned from us and with us in theatre, film, television, and a variety of other careers.

The department's mission is to educate students in the art of theatre, to conduct original research, and to present challenging productions to the university and Tampa Bay communities.

Students may graduate with a broad based theatre arts degree, or they may specialize in performance, design, or theatre education. Computer assisted design (CAD), playwriting, stage combat, circus skills, musical theatre, and puppetry are among the many electives available.

Special Features
1. The endowed British International Theatre Program (BIRT) brings five or more professional artists from the UK to work with upper level students for 6-8 weeks each spring semester.
2. The John W. Holloway endowed chair in theatre and dance provides funds annually for guest artist residences.
3. USF's Theatre Department has a formal student Exchange Program with Middlesex University in London, England.
4. The Theatre Department Honors Program allows small select groups of upper division students to work on special projects with faculty and guest artists for up to one year.

Visiting Artists and Artists-in-Residence

• Requirements for the B.A. Degree with a major in Theatre
Of the total 120 credit hours needed for graduation in the Performance, Design, or Theatre Arts areas, the student following the Performance area must take a minimum of 54 credit hours, and the student following the Design area or Theatre Arts area must take a minimum of 55 credit hours within the Department of Theatre. In addition, a maximum of 7 credit hours (Performance) and a maximum of 6 credit hours (Design or Theatre Arts) may apply to the theatre electives area.

NOTE: The Theatre Education Track is currently under revision.

The student may choose one of four areas for the B.A. degree: Performance, Design, Theatre Arts, or Theatre Education. Common to all is the following core:

Core Curriculum (35 hours)
First Year (11 credit hours)
THE 2020 Theatre Fundamentals
TPA 2200 Theatre Crafts: Stagemark
TPP 2110 Voice-Body Improvisation
Choice of one:
TPA 2223 Theatre Crafts: Lighting
TPA 2232 Theatre Crafts: Costume
Second Year (10 credit hours)
THE 3110 Theatre History -XMW
TPA 3004 Means of Visual Expression
TPP 3111 Workshop for Text Analysis
Third Year (8 credit hours)
Choice of two:
THE 4320 Theatre of Myth and Ritual -XMW
THE 4330 Shakespeare for the Theatre -XMW-XLW
THE 4360 19th Century Theatre Revolution -XLW
THE 4401 O'Neill and After -XMW
THE 4435 Theatre of Pluralism -6A -XMW
THE 4442 Comedy of the Classic and Neo-Classic Stage -XLW
THE 4480 Drama and Special Topics
THE 4180 Theatre Origins (XMW) may substitute as a second literature course.
plus 2 credits of THE 3925 for PI
Fourth Year (6 credit hours)
Choice of one:
THE 4480 Theatre Origins -XMW
THE 4562 Contemporary Performance Theory -XMW
plus 2 credits of THE 4927 for PI
Theatre Crafts Lab: TPA 2200 Theatre Crafts Stagecraft, TPA 2223 Theatre Crafts Lighting, TPA 2232 Theatre Crafts Costume has a laboratory (LAB) in addition to the regularly scheduled class sessions. LAB guidelines are available in the Theatre office.

Production Involvements: All Theatre Majors must complete 4 Pl's (Production Involvements) as part of their graduation requirements. Pl's must be taken under THE 3925 Production Involvement and/or THE 4927 Advanced Production Involvement for a total of 4 Pl's. Students may register for Pl credit beginning in the second semester of the Sophomore year upon completion of 45 credit hours and are expected to register each consecutive semester until completion of the four involvements. Pl assignments are made by faculty committee following the student's completion of a Pl request form and registration in the course. Pl guidelines and request forms are available in the Theatre Office.

Audition and Portfolio Review: All students desiring admittance into the Scene Study sequence must audition and those entering the upper level design sequence must present a portfolio. This normally occurs after the completion of the sophomore year.

Required Course for Areas of Study:

**Performance Area**

*NOTE: The Performance Track is currently under revision.*

(54 hours minimum with core) - 19 hours as follows:

**Third Year (10 credit hours)**
- TTP 3500 Body Disciplines
- TTP 3790 Voice Preparation
- TTP 4150 Scene Study I
- TTP 4152 Scene Study II

**Fourth Year (9 credit hours)**
- TTP 4140 Styles of Acting
- TTP 4180 Advanced Scene Study
- TTP 4920 Senior Workshop for Actors

**Design Area**

(55 hours minimum with core) - 20 hours Theatre, 4 hours Art as follows:

**Second Year (3 credit hours)**
- Complete Theatre Crafts sequence with TPA 2223 Lighting or TPA 2232 Costume
- ART 3301C Drawing I

required in the Theatre Design Area, recommended to be taken upon completion of prerequisite TPA 3004 Means of Visual Expression

**Third Year (9 credit hours)**
- TPA 4200 Stagecraft and Drafting
- Choice of two depending on design concentration:
  - TPA 3221 Lighting: Theory and Practice
  - THE 4264 History of Costume
  - THE 4266 Architecture and Decor

**Fourth Year (8 credit hours)**
- Choice of 2 depending on design area:
  - TPA 4020 Light Design
  - TPA 4040 Costume Design
  - TPA 4060 Scene Design

**Theatre Arts Area**

The Theatre Arts area is intended for the student who, in consultation with the Theatre Advisor, wishes to construct his/her own degree program from a broad spectrum of theatre courses. In addition to courses in performance and design, areas of study available are Puppetry, Playwriting, Stage Management, Directing, Literature and Criticism.

(55 hours minimum with core) - 20 hours as follows:

Two credit hours from any of the Performance sequence of courses (TPP) plus eighteen hours to be selected from the Theatre Department's course offerings.

**Theatre Education Area**

*NOTE: The Theatre Education Track is currently under revision.*

Completion of the Theatre Education concentration certifies students to teach in Florida, grades K-12. In addition to Department of Theatre requirements, students must meet the College of Education's upper level entrance requirements.

**Theatre Courses:**

(54 hours minimum with core) - 20 hours as follows:

- TPP 4230 Laboratory Workshop in Performance
- TPP 4150 Scene Study I
- TPP 4310 Directing

plus fourteen hours to be selected from the Theatre Department's course offerings in consultation with the Theatre Department Advisor.

Education Courses:

**Foundations:**
- EDF 3214 Human Development and Learning
- EDF 3604 Social Foundations of Education
- EDF 3542 Philosophy of Education
- EDF 4620 Curriculum and Instruction
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom

**Special Methods:**
- EGG 4320 Introduction to Creative Drama
- THE 4761 Methods of Teaching Theatre for Adolescents
- THE 4723 Theatre for Pre-Secondary Schools: Performance Process
- THE 4724 Theatre for Pre-Secondary Schools: Production Process

**Practice Experience:**
- EGG 4940 Internship
- EGG 4936 Seminar

**Requirement for a Minor in Theatre**

(23 hours minimum):
- THE 2020 Theatre Fundamentals
- TPA 2200 Theatre Crafts: Stagecraft
- TPA 2110 Voice-Body Improvisation
- THE 3925 Production Involvement
- THE 4927 Advanced Production Involvement

Choice of one:
- TPA 2223 Theatre Crafts: Lighting
- TPA 2232 Theatre Crafts: Costume

The remaining 10 hours are to be selected by the student with the advice of the theatre advisor. At least 9 hours must be upper level courses. The Theatre Advisor will be available to assist the student in developing a course of study that will meet the needs of the individual student.

Students desiring admittance into the Scene Study sequence must audition and those entering the upper level Design sequence must have a portfolio review.

All Theatre Minors must complete 2 Pl's (Production Involvement) as part of their graduation requirements. Pl's must be taken under: THE 3925 Performance 1 credit and/or THE 4927 - Advanced Performance 1 credit hour for a total of two (2) hours. Students may register for Pl credit in the second semester of the Sophomore year upon completion of 45 credit hours and are expected to register each consecutive semester until completion of two involvements.

**HONORS PROGRAM**

The Honors Program is available to upper level majors who
have a 3.5 GPA in the major and a 3.2 overall GPA and who have achieved a comparably high level of artistic and or scholarly achievement. A 6-8 credit one-year sequence of courses is offered to student accepted into the Honors Program. The sequence progresses from a reading seminar to a guest artist practicum to a student thesis or project.

THE 4593 2 credit hours
THE 4594 3 credit hours
THE 4595 1-3 credit hours

Guest artists have been working professionals from New York, San Francisco, Denver, Los Angeles, Munich, London, Tel-Aviv.

Prerequisites (State Mandated Common Prerequisites)

Students should complete the A.A. degree at the community college. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A minimum of 60 semester hours must be completed at the university unless prior approval is secured from the university advisor listed above. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Please be aware of the immunization, foreign language, and continuous enrollment policies of the university. This is a non-limited access program with the above courses recommended.

Students need not have completed a concentration of courses in theatre in order to consider a Theatre major at USF. Admission to upper-level Theatre Performance program is by audition for each level of Scene Study. Admission to upper-level Design sequence is by portfolio review. If the student does not succeed in passing the audition or portfolio review certain Theatre program requirements may have to be repeated (i.e., TPP 3111 Workshop in Text Analysis, or TPA 3004 Means of Visual Expression) until successful completion of the audition or portfolio review can be achieved.

Students should complete the following prerequisite courses listed below at the lower level prior to entering the University. If these courses are not taken at the community college, they must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade. If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

THE 2000 Introduction to the Theatre or any introductory course from 001-035 at the 1 or 2 level
THE 2300 Script Analysis, 3 semester hours or THE 2305
TPA 1290 Production Involvement, 1 semester hour
or TPA X925, 1 semester hour
TPA 2200 Theatre Crafts: Stagcraft, 3 semester hours
or TPA 2210, 3 semester hours
TPP 1190 Studio Theatre-Cast, 1 semester hour
or TPP 2190, 1 semester hour
TPP 2100 Voice-Body-Improvisation, 3 semester hours
or TPP 2210, 3 semester hours
PLUS nine hours of any combination of THE, TPA, and TPP courses.

British International Theatre Program (BRIT)

The BRIT Program is available each spring semester to 16 advanced theatre students by audition. The program consists of master classes and/or production experience with select guest artists from the U.K. Advanced scene study students are eligible for tuition remission for the three credit BRIT Program course.

FINE ARTS FACULTY

Art


Dance

Chairperson: T. R. Wilson; Professor: G. W. Warren; Associate Professors: S. W. Robinson-Waldrop, T. R. Wilson, L. Wimmer; Assistant Professor: J. Travess; Lecturer: J. E. Parks.

Music


Music Education

Director: C. P. Doane; Professor Emeritus: V. A. Bridges; Professors: C. P. Doane, J. J. Heller; Associate Professors: J. L. S. Moore, J. W. Richmond.

Theatre


FINE ARTS COURSES

Art

ARH 2050 HISTORY OF VISUAL ARTS I -HP-FA (3) A survey of World Art to AD 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.

ARH 2051 HISTORY OF VISUAL ARTS II -HP-FA (3) A survey of World Art since 1300. Students are introduced to problems of analyzing and interpreting the art of various cultures without making the Western perspective a privileged one. Open to non-majors.

ARH 3001 INTRODUCTION TO ART -6A-HP-FA (4) An expanded introductory treatment of basic concepts. For art majors and non-art majors.

ARH 4170 GREEK AND ROMAN ART (4) A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.

ARH 4200 MEDIEVAL ART (4) A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.

ARH 4200 RENAISSANCE ART (4) A comprehensive study of Renaissance and Maniert painting, sculpture and architecture in Italy and Northern Europe.

ARH 4315 VENETIAN ART (4) A comprehensive study of Venetian art are examined to elucidate the importance of Venice as the crossroads of cultural exchanges between Islam, Byzantium and West, and the importance of Venetian art for the history of art and art criticism.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4350</td>
<td>BAROQUE AND ROCOCO ART</td>
<td>(4)</td>
<td>A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.</td>
</tr>
<tr>
<td>ARH 4400</td>
<td>JAPANESE MODERN ART</td>
<td>(4)</td>
<td>A comprehensive study of nineteenth century painting, sculpture and architecture from Cezanne to the present in Europe. Gender/multicultural issues and methodologies in 19th century art are emphasized.</td>
</tr>
<tr>
<td>ARH 4450</td>
<td>TWENTIETH CENTURY ART</td>
<td>(4)</td>
<td>A comprehensive study of painting, sculpture and architecture from Cezaanne to the present in Europe and the United States. Required of all art majors.</td>
</tr>
<tr>
<td>ARH 4455</td>
<td>MODERN POLITICAL ICONOGRAPHY -XMW</td>
<td>(4)</td>
<td>PR: CI. The course explores art in which political themes are considered to be the sources and determinant of aesthetic decisions. The dominant iconographic theme is the iconography of revolution, rebellion, and other forms of political struggle in 20th Century art and film.</td>
</tr>
<tr>
<td>ARH 4530</td>
<td>ORIENTAL ART</td>
<td>(4)</td>
<td>An introduction to concepts of the arts of China, Japan and other Far Eastern countries.</td>
</tr>
<tr>
<td>ARH 4540</td>
<td>JAPANESE PRINTS</td>
<td>(4)</td>
<td>This course examines one important aspect of Asian art. &quot;Japanese Prints&quot; concentrates on the period from 1615 to the present and distinguishes schools, artists, subjects, patronage patterns, and technical matters. The role of prints within society and on Western art is examined throughout.</td>
</tr>
<tr>
<td>ARH 4557</td>
<td>CHINESE ART</td>
<td>(4)</td>
<td>PR: CI. Chinese art proceeds chronologically, from the neolithic era up to the contemporary art world. The course considers cultural, linguistic, technical, philosophic, political and religious influences on the art works produced by this ancient society.</td>
</tr>
<tr>
<td>ARH 4750</td>
<td>HISTORY OF PHOTOGRAPHY -6A -XMW</td>
<td>(4)</td>
<td>PR: CI. Comprehensive overview of the history of photography from its inception to the present day with an emphasis on the relationship of photography to the visual arts and popular culture.</td>
</tr>
<tr>
<td>ARH 4790</td>
<td>SELECTED TOPICS IN THE HISTORY OF FILM</td>
<td>(4)</td>
<td>In-depth investigation of a selected period, development, or school in the history of film as art. May be repeated.</td>
</tr>
<tr>
<td>ARH 4796</td>
<td>CRITICAL STUDIES IN ART HISTORY -6A</td>
<td>(4)</td>
<td>PR: CI. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated for different topics only.</td>
</tr>
<tr>
<td>ARH 4830</td>
<td>ART HISTORY: SELECTED TOPICS</td>
<td>(2-4)</td>
<td>Lecture discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.</td>
</tr>
<tr>
<td>ARH 4937</td>
<td>SEMINAR IN THE HISTORY OF ART HISTORY</td>
<td>(4)</td>
<td>PR: Four courses in Art History at the 4000 level. CI. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.</td>
</tr>
<tr>
<td>ARH 4955</td>
<td>SENIOR PROJECTS</td>
<td>(4)</td>
<td>Independent study with professor. Student-designed project to be completed before end of senior year. Art projects may include designs for community and public arts programs, installations, curatorial work, performance, a series of works developed within a particular studio discipline, etc. Restricted to majors.</td>
</tr>
<tr>
<td>ARH 5385</td>
<td>CULTURAL AND INTELLECTUAL HISTORY OF RENAISSANCE AND BAROQUE ART</td>
<td>(4)</td>
<td>A course in which Renaissance and Baroque theories of art are treated as part of the cultural and intellectual history.</td>
</tr>
<tr>
<td>ARH 5451</td>
<td>CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART</td>
<td>(4)</td>
<td>A course in which theories of modern artists, and of critics and historians of Modernism are treated as a part of general Culture and Intellectual History.</td>
</tr>
<tr>
<td>ARH 5795</td>
<td>METHODS OF ART HISTORY</td>
<td>(4)</td>
<td>This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation. (Must be taken during the student's first two semesters in the program.)</td>
</tr>
<tr>
<td>ARH 5797</td>
<td>GALLERY AND MUSEUM INTERNSHIP</td>
<td>(2-6)</td>
<td>By working in Bay Area museums or galleries, students will become familiar with various museological operations. Internships vary depending on the work at hand in particular museums, but possible areas of work include registration, installation, conversation, writing of grants, or museum education. (Students are eligible after completing one semester in the program.)</td>
</tr>
<tr>
<td>ART 2111C</td>
<td>ADVANCED CERAMICS</td>
<td>(3)</td>
<td>PR: ART 3110C. Continued problems in ceramics. May be repeated.</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>FABRICATIONS -FA</td>
<td>(4)</td>
<td>An introduction to basic visual art studio concepts. Topics include the nature of art, the visual language of its form, modes of representation, and visual art therapy. Studio problems supplemented by lecture and discussion. Emphasis on images of implied time and space.</td>
</tr>
<tr>
<td>ART 2301C</td>
<td>BEGINNING DRAWING</td>
<td>(3)</td>
<td>Intermediate projects exploring the methods, media, and concepts of drawing.</td>
</tr>
<tr>
<td>ART 2400C</td>
<td>BEGINNING PRINTMAKING</td>
<td>(3)</td>
<td>This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, lithography and serigraphy (screen printing).</td>
</tr>
<tr>
<td>ART 2510C</td>
<td>BEGINNING PAINTING</td>
<td>(3)</td>
<td>Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.</td>
</tr>
<tr>
<td>ART 2920C</td>
<td>ADVANCED PAINTING</td>
<td>(3)</td>
<td>PR: ART 2510C. Continued projects in painting. May be repeated.</td>
</tr>
<tr>
<td>ART 2701C</td>
<td>BEGINNING SCULPTURE</td>
<td>(3)</td>
<td>Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.</td>
</tr>
<tr>
<td>ART 2701C</td>
<td>ADVANCED SCULPTURE</td>
<td>(3)</td>
<td>PR: ART 2701C. Continued problems in sculpture. May be repeated.</td>
</tr>
<tr>
<td>ART 2930</td>
<td>SELECTED TOPICS IN ART</td>
<td>(2-4)</td>
<td>The content of this course will be determined by student demand and instructor interest. May be repeated with different topics. (Open University offerings under this number may not be counted for degree credit for art majors.)</td>
</tr>
<tr>
<td>ART 3110C</td>
<td>BEGINNING CERAMICS</td>
<td>(3)</td>
<td>Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts.</td>
</tr>
<tr>
<td>ART 3222</td>
<td>BEGINNING ELECTRONIC MEDIA</td>
<td>(3)</td>
<td>An Introductory exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media. Available to majors and non-majors.</td>
</tr>
<tr>
<td>ART 3468</td>
<td>MULTI-MEDIA PRINTMAKING</td>
<td>(3)</td>
<td>PR: ARH 3001, ART 2201C, ART 2301C. Investigation of Printmaking Media including: monoprinting, collograph, relief printing and the dimensional print with emphasis on the development of individual concepts.</td>
</tr>
</tbody>
</table>
| ART 3469  | PHOTO-PRINTMAKING                                      | (3)     | PR: ARH 3001, ART 2201C, ART 2301C. Investigation of...
ART 5125C CERAMICS (4)
PR: ART 2111C. Advanced projects in the various ceramic techniques, including throwing and glaze calculation. May be repeated.

ART 5340C DRAWING (4)
PR: ART 4320C. Advanced projects in various drawing techniques. Emphasis on individual creative expression. May be repeated.

ART 5422C LITHOGRAPHY (4)
PR: ART 4402. Advanced projects in various lithographic techniques. Emphasis on individual creative expression. May be repeated.

ART 5472C INTAGLIO (4)
PR: ART 4402. Investigations into more complex intaglio processes including photogravure and color printing procedures. Emphasis on personal conceptual development in graphic media. May be repeated.

ART 5536C PAINTING (4)
PR: ART 2702C. Advanced projects in the various painting techniques. Emphasis on individual creative expression. May be repeated.

ART 5730C SCULPTURE (4)
PR: ART 2702C. Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. May be repeated.

ART 5910 RESEARCH (1-4)
PR: CC. May be repeated.

ART 5936 STUDIO TECHNIQUES: SELECTED PROJECTS (2)
PR: ARH 3001, ART 2201C, ART 2203C, and Cl. Concentration in specialized technical data and process. May be repeated for credit for different topics only.

ART 3939 THE REAL WORLD (2)
For studio students in their Junior year. Offers studio students the opportunity to analyze their experiences as art majors and explore options available to visual artists upon completion of their degree.

ART 4222 ADVANCED ELECTRONIC MEDIA (3)
PR: ART 3222 or Cl. Advanced exploration of issues and practices involved in the creation of experimental computer art. The course continues as interdisciplinary approach to electronic media with a focus on individual and group projects.

ART 4224 COMPUTER ANIMATION (3)
PR: ART 4223. Exploration of issues and practices involved in the creation of computer animations, focused on individual creative growth.

ART 4226 ADVANCED DRAWING (3)
PR: ART 2301C. Continued projects in drawing. May be repeated.

ART 4402C ADVANCED PRINTMAKING (3)
PR: ART 2400. This course is designed as an advanced level printmaking studio and emphasizes content and meaning in visual imagery. The student is encouraged to work in a specific printmaking medium (intaglio, relief, lithography or screen printing) and develop a cohesive series of images.

ART 4703 SCULPTURE III (3)
PR: ART 2702C or ART 2111C. Study of current 3-D issues in art with advanced self directed project to explore the development of a personal vocabulary in 3-D media.

ART 4806 THEME STUDIO (3)
PR: All Art Department Preparation courses plus work in Studio Workshop I. Taught by two or more faculty from different media/disciplines. Topics are variable. Required of all majors with studio concentration. Open to upper level non-majors with Cl. May be repeated up to 12 credit hours.

ART 4900 DIRECTED READING (1-4)
PR: Cl and CC. A course of reading and study in an area of special concern governed by student demand, instructor interest and/or departmental requirements. Registration by contract only. May be repeated for credit for different study areas only.

ART 4905 DIRECTED STUDY (1-4)
PR: CC. Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. May be repeated.

ART 4930 SELECTED TOPICS IN ART (2-4)
The content of this course will be determined by student demand and instructor interest. May be repeated with different topics. (Open University offerings under this number may not be counted for degree credit for art majors.)

ART 4955 SENIOR PROJECTS (2-4)
Independent study with professor. Student-designed project to be completed before end of senior year. Art projects may include designs for community and public arts programs, installations, curatorial work, performance, a series of works developed within a particular studio discipline, etc. Restricted to majors.

Admission to all 5000-level studio courses by Consent of Instructor.

226 COLLEGE OF FINE ARTS
UNIVERSITY OF SOUTH FLORIDA - 1998/99 UNDERGRADUATE CATALOG
ARE 4440 ART TEACHING STRATEGIES II (3)
Media and the learning process will be explored through photographs, movement patterns. May be repeated.

DAA 1100 FUNDAMENTALS OF MODERN DANCE (2)
Preparation of studies in theme and variations, breath phrases and metric phrases. May be repeated.

DAA 2260 BALLET I (2)
PR: Admission by Audition. This is a studio class for students with serious interest in Ballet. Emphasis is on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in centre work using classical Ballet vocabulary (French terms). May be repeated.

DAA 2500 FUNDAMENTALS OF JAZZ DANCE (2)
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic movement patterns. May be repeated up to 4 credit hours.

DAA 2700 CHOREOGRAPHY I (2)
Study and execution of basic principles of composition.

Dance

DAA 1100 FUNDAMENTALS OF MODERN DANCE (2)
To acquaint beginning modern students with fundamentals of dance vocabulary, movement, rhythm, and alignment. May be repeated.

DAA 1200 FUNDAMENTALS OF BALLET (2)
To acquaint beginning ballet students with fundamentals of vocabulary, movement, rhythm, and alignment. May be repeated.

DAA 2000 THEATRE DANCE STYLES (2)
PR: DAA 2100 or DAA 2200 or Cl. Development of technical skills in social and historical dance forms frequently stylized for use by dance choreographers. Forms to be studied may vary. May be repeated up to 4 credit hours.

DAA 2104 MODERN DANCE II (3)
PR: Admission by placement audit. Study of principles of modern dance technique. Practical work in exercises and movement phrases, utilizing changing rhythms and dynamics. Concert and performance attendance required. May be repeated.

DAA 2160 MODERN DANCE I (2)
PR: Admission by Audition. This is a studio class for students with a serious interest in Modern Dance. Emphasis is on correct alignment, development of strength, rhythmic and dynamic activity, as well as spatial and locomotor patterns that underlie work in more advanced contemporary dance.

DAA 2260 BALLET I (2)
PR: Admission by Audition. This is a studio class for students with serious interest in Ballet. Emphasis is on correct alignment of the body and a progressive development of positions and barre exercises as well as the application of combinations in centre work using classical Ballet vocabulary (French terms).

DAA 2480 PERFORMANCE (1)
PR: Admission by audition or CC. Open to all university students proficient in dance techniques and concurrently enrolled in technique. Rehearsal and performance of works presented by the department. May be repeated up to 10 credit hours.

DAA 2500 FUNDAMENTALS OF JAZZ DANCE (2)
A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic movement patterns. May be repeated up to 4 credit hours.

DAA 2700 CHOREOGRAPHY I (2)
Study and execution of basic principles of composition.
DAA 4703 CHOREOGRAPHY IV 
PR: DAA 4702. The student will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading. May be repeated.

DAA 4708 DANCE PEDAGOGY AND PRACTICE 
PR: Senior Dance major, CI, CC. The creation of an original group work and solo within the senior's major concentration: ballet or modern. To be performed and presented with the concurrence of a faculty advisor.

DAN 3220 DANCE STAGES 
PR: Senior Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops. May be repeated up to 4 credit hours.

DAE 4300 DANCE PEDAGOGY: THEORY AND PRACTICE 
PR: CI and CC. For majors and non-majors. Designed to provide prospective dance teachers with opportunities to develop concepts of pedagogy based on principles of teaching - learning in dance techniques and choreography. May be repeated up to 9 credit hours.

DAE 4302 DANCE PEDAGOGY: SECONDARY CURRICULUM AND METHODS 
This course is designed to meet the needs of students in dance education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to the secondary student.

DAE 4371 DANCE PEDAGOGY: PRE-SCHOOL AND ELEMENTARY METHODS 
This course is designed to meet the needs of students in dance education to understand the scope and sequence of dance curriculum design and teaching methods appropriate to pre-school and elementary students.

DAN 2100 INTRODUCTION TO DANCE-6A 
PR: Cl and CC. Elements within historical context. Continued problems in rhythmic materials.

DAN 2810 MUSIC FOR DANCE 
PR: DAN 2610 or CI. Development of practical music skills in relation to dance. Emphasis on rhythm and the relationship of music forms to dance. May be repeated up to 4 credit hours.

DAN 2811 MUSIC FOR DANCE II 
PR: DAN 2810 or CI. Elements within historical context. Continued problems in rhythmic materials.

DAN 2933 ENTRY SEMINAR 
(2) 
This is a study of dance-related career opportunities through lectures, assigned reading and video viewing. This course will aid majors in understanding dance as an aesthetic art form through discussion and critical evaluation.

DAN 3420 INTRODUCTION TO LABAN MOVEMENT ANALYSIS 
(3) 
Laban Movement Analysis is a system which enables one to see, describe and learn movement in a clear, efficient and objective manner. Space, shape, dynamics and human development patterns are categories which are studied by means of lecture, improvisational movement and reading materials.

DAN 3590 PRACTICUM IN DANCE PRODUCTION I (1-2) 
A practicum in mounting dance concerts with shop work and backstage participation. Intended for students working in costuming, set preparation, lighting, stage management, and production crew. Dance majors must have at least 2 credits for graduation accumulated in two different semesters. 40 hour lab required.

DAN 3730 DANCE KINESIOLOGY 
PR: Sophomore or transfer students. This course will give the student an understanding of basic human anatomy and how it functions as related to movement, injury prevention, teaching and performance. Individual structural differences and how these affect movement potential will also be studies. There will be an emphasis on the kinesiological analysis of movement with the goal of increased efficiency, enhanced performance and injury prevention.

DAN 4111 DANCE HISTORY THROUGH THE 19TH CENTURY -6A 
(3) 
Designed for majors and non-majors, this course will present a comprehensive view of the evolution of dance as an art form from its origins through the 19th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing.

DAN 4112 20TH CENTURY DANCE 
(3) 
Designed for majors and non-majors, this course will trace the development of dance as an art form in the 20th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing. Students will be required to attend at least two dance performances.

DAN 4170 DANCE SENIOR SEMINAR 
PR: Senior Dance major status. A study of career opportunities in performance, teaching, research, design, and choreography. To aid majors in self-appraisal as artists and develop methods to further their potential in the professional world. Discussion, critical evaluation, and projects.

DAN 4905 DIRECTED READING 
(2) 
PR: CI and CC. Reading in topic of special interest to the student. Selection of topic and materials must be agreed upon and appropriate credit must be assigned prior to registration. A contract with all necessary signatures is required for registration. May be repeated for credit for different topics only.

DAN 4906 DIRECTED STUDY 
(1-5) 
PR: CI and CC. Independent studies in the various areas of Dance. Course of study may be used to fulfill Junior Project. Must receive approval prior to registration.

DAN 4930 SELECTED TOPICS IN DANCE 
(1-5) 
PR: CI and CC. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.

Fine Arts Interdisciplinary

IDS 3382 ARTS CONNECTION -FA 
(3) 
This is an introductory course to the arts disciplines of music, dance, theatre and art. Artists from the four disciplines will provide weekly presentations centered around issues and ideas that have formed the basis of their creative research. Issues involved in diversity, new technologies, and community and public arts will be explored. This course will introduce students to the role the arts play in shaping their perceptions of the world as well as reflecting the underlying values and paradigms that form our culture(s).

IDS 4302 CRITICAL ISSUES AFFECTING THE ARTS EXAMINATION (3) 
PR: JR Standing or CI. A discussion based on examination of cultural trends, educational policies, governmental regulations, and financial factors which impact Art, Dance, Music, and Theatre. SU option.

Music

MUC 2221 COMPOSITION 
(3) 
PR: MUC 1112 and CI. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 2301 INTRODUCTION TO ELECTRONIC MUSIC 
(3) 
History and repertory of electronic music; standard sound studio techniques; basic electronics as applied in electronic sound synthesis; mathematics for music composition and electronic music.

MUC 3231 COMPOSITION (3) 
PR: Necessary competency at MUC 2221 level determined by faculty jury. Private instruction in original composition. Required of composition majors. May be repeated for three semesters.

MUC 3401, 3402 ELECTRONIC MUSIC ANALOG SYNTHESIS (3,3) 
PR: MUC 2301 and CI. Composition for tape medium with analog synthesizers; use of sound recording studio; repertoire or analog music synthesis; technical basis of analog systems design and construction.
MUC 3441, 3442 ELECTRONIC MUSIC-DIGITAL SYNTHESIS
PR: MUC 3401 or 3402 and Cl. Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.

MUC 4241 COMPOSITION
PR: Necessary competency at MUC 3231 level determined by instructor for instruction in original composition. Required of composition majors.

MUC 4403, 4404 ELECTRONIC MUSIC-REAL-TIME PERFORMANCE
PR: MUC 3402 and MUC 3442 or equivalent. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4501 SEMINAR IN NEW MUSICAL SYSTEMS
PR: Cl. Experimental sound sources and ensemble groupings; creation of new instruments; unfamiliar sonic materials and unique social contexts for music. May be repeated for credit.

MUC 4620 JAZZ COMPOSITION
PR: MUT 3354 and/or Cl. Private instruction in original jazz composition. Required of All Jazz Studies Comp. majors. Must be repeated for credit for a minimum of 6 hours for majors.

MUC 3104 BASIC CONDUCTING
PR: Cl. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

MUG 4302 INSTRUMENTAL CONDUCTING
PR: MUG 3101 & Cl. A study of those techniques of conducting unique to instrumental music ensembles: baton technique, score reading, terminology, rehearsal management.

MUH 2019 HISTORY OF POPULAR MUSIC

MUH 2051 FOLK AND TRADITIONAL MUSIC OF WORLD CULTURES -FA -AF
A comparative survey of the stylistic traits and functions of the folk and traditional music, both sacred and secular, of diverse Western and non-Western cultures. For non-majors; may be taken by majors as an elective with departmental approval. Required of music education majors.

MUH 2632 MUSIC IN THE UNITED STATES -FA
Designed for majors and non-majors, this course will use live performances, videotapes, and recordings to illustrate music as practiced in America from Colonial to present times. It will also include the study of the contributions of various ethnic/minority groups, and discussions of the relevant social issues connected with these contributions.

MUH 3016 SURVEY OF JAZZ -FA
An in-depth study of the historical study of jazz, including the representative music, literature, and sociological implications.

MUH 3300 MUSIC HISTORY/MEDIEVAL AND RENAISSANCE
PR: Cl. Required of music majors; a study of the historical development of musical styles of the Medieval and Renaissance periods and of the music of those periods.

MUH 3301 MUSIC HISTORY/BAROQUE AND CLASSIC -XMW
PR: MUL 2111 or CI. A study of the historical development of musical styles of the Baroque and Classic periods and of the music of those periods. Required of music majors; open to non-majors with Cl.

MUH 3302 MUSIC HISTORY/ROMANTIC AND 20TH CENTURY -XMW
PR: MUL 2111 or Cl. A study of the historical development of musical styles of the Romantic and Twentieth Century eras and of the music of those periods. Required of music majors; open to non-majors with Cl.

MUH 3453 OPERA WORKSHOP
PR: MUL 2111 or Cl. An in-depth investigation of composers born after c. 1880, from all parts of the world, who have attempted to integrate elements from two or more cultures into their compositions.

MUL 3001 HISTORY OF JAZZ -FA
PR: MUT 1112 or CI. An in-depth study of the historical development of Jazz, including the representative musical literature and sociological implications.

MUL 2011, 3012 THE ENJOYMENT OF MUSIC -FA
Open only to non-music majors; a study in the art of music and its materials, designed to develop an understanding of basic principles of music and a technique for listening to music.

MUL 2111 INTRODUCTION TO MUSIC LITERATURE -FA -AF
PR: MUT 1112 or Cl. A survey of representative music exemplars of the past and present with emphasis on the study of styles and forms. Required for music majors.

MUL 3001 ISSUES IN MUSIC -FA -AF
Open only to non-music majors; lectures and live performances by artist faculty of significant works from the literature for the piano; analysis and illustration in performance of the abstract and aesthetic elements in music which vitally concern the artist-performer. (S/U only.)

MAJOR PERFORMING ENSEMBLES
PR: Cl. Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combinations of voices, string, woodwind, brass, or percussion instruments. May be repeated for credit.

MUN 3143 WIND ENSEMBLE
MUN 3213 UNIVERSITY ORCHESTRA
MUN 3315 UNIVERSITY SINGERS
MUN 3333 UNIVERSITY-COMMUNITY CHORUS
MUN 3433 PIANO ENSEMBLE
MUN 3713 JAZZ ENSEMBLE
MUN 3503 OPERA WORKSHOP

CHAMBER MUSIC ENSEMBLES
PR: Cl. Open to all university students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano; may be repeated for credit.

MUN 3343 CHAMBER SINGERS
MUN 3411 STRING QUARTET
MUN 3420 SAXOPHONE ENSEMBLE
MUN 3421 FLUTE CHOIR
MUN 3424 WOODWIND QUINTET
MUN 3431 BRASS QUINTET
MUN 3432 HORN QUARTET
MUN 3433 BRASS CHOIR
MUN 3434 PERCUSSION ENSEMBLE
MUN 3444 MARIMBA ENSEMBLE
MUN 3473 COLLEGIUM MUSICUM
MUN 3483 CLASSICAL GUITAR ENSEMBLE
MUN 3714 JAZZ CHAMBER ENSEMBLE

MUS 2010 RECITAL ATTENDANCE
This course is required whenever a student registers for applied music. The requirement for the successful completion of the course is attendance at ten (10) department-approved recitals/concerts throughout the semester. (S/U grading only.)

MUS 2201 LANGUAGE DICTION FOR SINGERS
PR: CI. Independent study in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUS 4005 DIRECTED STUDY
PR: CI and CC. Independent study in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.

MUS 4830 SELECTED TOPICS IN MUSIC
PR: CI and CC. The content of the course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.
<table>
<thead>
<tr>
<th>COURSE</th>
<th>PR/CL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 4931 SELECTED STUDIO TOPICS IN MUSIC</td>
<td></td>
<td>(1-4) PR/CI. The content of the study will be governed by individual student demand and instructor interest with an emphasis on individual instruction.</td>
</tr>
<tr>
<td>MUS 4905 DIRECTED STUDY</td>
<td>(1-4)</td>
<td>PR/CC. Independent studies in the various areas of music; course of study and credits must be assigned prior to registration; may be repeated.</td>
</tr>
<tr>
<td>MUSIC WORKSHOP COURSES</td>
<td></td>
<td>(below) Intensive study in the specialized areas indicated below; open to teachers, University students, and secondary students; credit available to qualified students.</td>
</tr>
<tr>
<td>MUS 5929 ORCHESTRA WORKSHOP</td>
<td>(1-2)</td>
<td></td>
</tr>
<tr>
<td>MUS 5929 STRING WORKSHOP</td>
<td>(1-2)</td>
<td></td>
</tr>
<tr>
<td>MUS 1001 RUDIMENTS OF MUSIC</td>
<td>(2)</td>
<td>Open to non-music majors; development of skills in hearing and performing music in the basic notation. Will not count as degree credit for music majors.</td>
</tr>
<tr>
<td>MUS 1111, 1112 MUSIC THEORY</td>
<td>(3,3)</td>
<td>PR. Required of music majors; development of skills in perceiving and writing music from all historical periods of music literature.</td>
</tr>
<tr>
<td>MUS 1241, 1242 AURAL THEORY</td>
<td>(1,1)</td>
<td>PR. Course designed to begin training in aural recognition and vocalization of materials used in music composition. Includes rhythmic, melodic, and harmonic dictation, and sight singing. To be taken concurrently with MUT 1111, 1112.</td>
</tr>
<tr>
<td>MUS 2116, 2117 MUSIC THEORY</td>
<td>(3,3)</td>
<td>PR. MUT 1112. Required of music majors, continuation of MUT 1111 and 1112.</td>
</tr>
<tr>
<td>MUS 2246, 2247 ADVANCED AURAL THEORY</td>
<td>(1,1)</td>
<td>PR. MUT 1242. Course designed to continue training in aural recognition and vocalization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUT 2116, 2117.</td>
</tr>
<tr>
<td>MUS 2641 JAZZ THEORY AND IMPROVISATION</td>
<td>(2)</td>
<td>PR. MUT 1112 and/or CI. A study of jazz improvisational techniques and related jazz theory.</td>
</tr>
<tr>
<td>MUS 2642 JAZZ THEORY AND IMPROVISATION II</td>
<td>(2)</td>
<td>PR. MUT 3641 or CI. A study of jazz improvisational techniques and related jazz theory.</td>
</tr>
<tr>
<td>MUS 3353 JAZZ COMPOSITION AND ARRANGING</td>
<td>(3)</td>
<td>PR. MUT 1112 and CI. Course designed to develop arranging and compositional skills in the jazz idiom through the study of jazz composition, harmonic, and melodic practices.</td>
</tr>
<tr>
<td>MUS 3354 JAZZ COMPOSITION AND ARRANGING II</td>
<td>(3)</td>
<td>PR. MUT 1112 and CI. Course designed to develop arranging and compositional skills in the jazz idiom through the study of jazz orchestration, harmonic and melodic practices.</td>
</tr>
<tr>
<td>MUS 3663 ADVANCED JAZZ IMPROVISATION I</td>
<td>(2)</td>
<td>PR. MUT 3642 or CI. A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.</td>
</tr>
<tr>
<td>MUS 3664 ADVANCED JAZZ IMPROVISATION II</td>
<td>(2)</td>
<td>PR. Jazz Styles and Analysis I or CI. A continuation of Jazz Styles and Analysis I with the emphasis on contemporary jazz artists. Students are required to enroll in Jazz Chamber Ensemble as a lab. Open to majors and non-majors.</td>
</tr>
<tr>
<td>MUS 4311, 4312 ORCHESTRA</td>
<td>(2,2)</td>
<td>PR. CI. Intensive study and practice in scoring music for various kinds of orchestras, band, and smaller ensembles of string, woodwind, brass, and percussion instruments.</td>
</tr>
<tr>
<td>MUS 4411 SIXTEENTH CENTURY PRACTICE</td>
<td>(3)</td>
<td>PR. MUT 2117. A study of the music of the 16th century from a theoretical standpoint; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.</td>
</tr>
</tbody>
</table>
APPLIED MUSIC COURSES PRINCIPAL (below)

MVK 1313 ORGAN PRINCIPAL (2)
MVP 1311 PERCUSSION PRINCIPAL (2)
MVS 1311 VIOLIN PRINCIPAL (2)
MVS 1312 VIOLA PRINCIPAL (2)
MVS 1313 VIOLONCELLO PRINCIPAL (2)
MVS 1314 DOUBLE BASS PRINCIPAL (2)
MVS 1315 HARP PRINCIPAL (2)
MVS 1316 CLASSICAL GUITAR PRINCIPAL (2)
MVW 1311 VOICE PRINCIPAL (2)
MVW 1311 FLUTE PRINCIPAL (2)
MVW 1312 OBOE PRINCIPAL (2)
MVW 1312 CLARINET PRINCIPAL (2)
MVW 1313 BASSOON PRINCIPAL (2)
MVW 1315 SAXOPHONE PRINCIPAL (2)

PR: Cl. Required of all music education and composition majors; open to a limited number of non-music majors by audition only. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. Applied music courses are NOT available on S/U basis.

MVV 2321 TRUMPET PRINCIPAL (2)
MVV 2321 TROMBONE PRINCIPAL (2)
MVV 2322 EUPHONIUM PRINCIPAL (2)
MVV 2323 TUBA PRINCIPAL (2)
MVV 2324 VIOLONCELLO PRINCIPAL (2)
MVV 2324 JAZZ GUITAR PRINCIPAL (2)
MVV 2324 JAZZ BASS PRINCIPAL (2)
MVV 2324 APPLIED JAZZ PERCUSSION PRINCIPAL (2)
MVV 2321 PIANO PRINCIPAL (2)
MVV 2322 ORGAN PRINCIPAL (2)
MVV 2321 PERCUSSION PRINCIPAL (2)
MVS 2321 VIOLIN PRINCIPAL (2)
MVS 2322 VIOLA PRINCIPAL (2)
MVS 2323 VIOLONCELLO PRINCIPAL (2)
MVS 2324 DOUBLE BASS PRINCIPAL (2)
MVS 2325 HARP PRINCIPAL (2)
MVS 2326 CLASSICAL GUITAR PRINCIPAL (2)
MVV 2321 VOICE PRINCIPAL (2)
MVV 2321 FLUTE PRINCIPAL (2)
MVV 2322 OBOE PRINCIPAL (2)
MVV 2323 CLARINET PRINCIPAL (2)
MVV 2324 BASSOON PRINCIPAL (2)
MVV 2325 APPLIED JAZZ PERCUSSION PRINCIPAL (2)

APPLIED MUSIC COURSES PRINCIPAL (below)

PR: Cl. Required of all music education and composition majors; open to a limited number of non-music majors by audition only. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. May be repeated for credit only. Private and class instruction in string, woodwind, brass, and percussion instruments, voice and piano. May be repeated for credit.

MVV 3331 TRUMPET PRINCIPAL (2)
MVV 3332 TROMBONE PRINCIPAL (2)
MVV 3333 EUPHONIUM PRINCIPAL (2)
MVV 3335 TUBA PRINCIPAL (2)
MVV 3330 APPLIED JAZZ PIANO PRINCIPAL (2)
MVJ 3333 ORGAN PRINCIPAL (2)
MVJ 3333 JAZZ GUITAR PRINCIPAL (2)
MVJ 3334 VIOLIN PRINCIPAL (2)
MVJ 3334 VIOLONCELLO PRINCIPAL (2)
MVJ 3334 VIOLONCELLO PRINCIPAL (2)
MVJ 3334 JAZZ BASS PRINCIPAL (2)
MVJ 3334 DOUBLE BASS PRINCIPAL (2)
MVJ 3334 HARP PRINCIPAL (2)
MVJ 3335 CLASSICAL GUITAR PRINCIPAL (2)
MVJ 3331 VOICE PRINCIPAL (2)
MVW 3331 FLUTE PRINCIPAL (2)
MVW 3332 OBOE PRINCIPAL (2)
MVW 3333 CLARINET PRINCIPAL (2)
MVW 3334 BASSOON PRINCIPAL (2)
MVW 3335 SAXOPHONE PRINCIPAL (2)

APPLIED MUSIC COURSES PRINCIPAL (below)

PR: Cl. Required of all music education and composition majors; open to a limited number of non-music majors by audition only.
APPLIED MUSIC COURSES

PR: Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction in string, woodwind, brass and percussion instruments, voice and piano. May be repeated for credit three semesters only.

MVW 2425 (3)
MVW 2421 VOICE MAJOR (3)
MVW 2431 FLUTE MAJOR (3)
MVW 2422 OBOE MAJOR (3)
MVW 2423 CLARINET MAJOR (3)
MVW 2424 BASSOON MAJOR (3)
MVW 2425 SAXOPHONE MAJOR (3)

APPLIED MUSIC COURSES (below)

MVW 2421 VOICE MAJOR (3)
MVW 2431 FLUTE MAJOR (3)
MVW 2422 OBOE MAJOR (3)
MVW 2423 CLARINET MAJOR (3)
MVW 2424 BASSOON MAJOR (3)
MVW 2425 SAXOPHONE MAJOR (3)

APPLIED MUSIC COURSES (below)

MVW 5252 APPLIED TROMBONE (2-3)
MVW 5254 APPLIED EUHENION (2-3)
MVW 5255 APPLIED TUBE (2-3)
MVW 5256 APPLIED PIANO (2-3)
MVW 5253 APPLIED ORGAN (2-3)
MVW 5251 APPLIED VIOLIN (2-3)
MVW 5252 APPLIED VIOLA (2-3)
MVW 5253 APPLIED CELLO (2-3)
MVW 5254 APPLIED DOUBLE BASS (2-3)
MVW 5255 APPLIED HARP (2-3)
MVW 5256 APPLIED CLASSICAL GUITAR (2-3)
MVW 5251 APPLIED VOICE (2-3)
MVW 5251 APPLIED FLUTE (2-3)
MVW 5252 APPLIED OBOE (2-3)
MVW 5253 APPLIED CLARINET (2-3)
MVW 5254 APPLIED BASSOON (2-3)
MVW 5255 APPLIED SAXOPHONE (2-3)

MVJ 4950 APPLIED JAZZ PERFORMANCE (3)
PR: MUT 3642 and CI. Necessary competency at junior level determined by faculty jury examination. Private and class instruction. May be repeated for credit unlimited semesters.

MUSIC STUDIORPEDAGOGY COURSES (below)

PR: CI. May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.

MVX 4641 PIANO PEDAGOGY I (4)
MVX 4641 PIANO PEDAGOGY II (4)

MASTER CLASS COURSES (below)

PR: CI. Study and performance of selected literature with special emphasis on style, form, and techniques; especially designed for teachers, piano majors, and talented secondary school students.

MVS 5750 STRINGS, MASTER CLASS (2)

Music Education

MUE 2090 THEORETICAL BASES OF MUSIC EDUCATION (3)
The course is designed to investigate music education practices in the schools. Through the experience and information offered in this course a student will be able to determine his/her commitment to professional music education.

MUE 2450 BEGINNING WOODWIND TECHNIQUES (1)
PR: Sophomore standing, non-woodwind major. The course introduces the fundamentals of woodwind instrument pedagogy. In addition basic techniques of woodwind performance are taught through the study of clarinet and flute.

MUE 2460 BEGINNING BRASS TECHNIQUES (1)
PR: Sophomore standing, non-brass major. The course introduces the fundamentals of brass wind instrument pedagogy. In addition, basic techniques of brass performance are taught through the study of trombone and trumpet.

MUE 3421 CHORAL MATERIALS PRACTICUM (1)
PR: CI. A study of choral materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3422 BAND MATERIALS PRACTICUM (1)
PR: CI. A study of band materials in a laboratory setting appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3423 ORCHESTRA MATERIALS PRACTICUM (1)
PR: CI. A study of orchestra materials, in a laboratory setting, appropriate to elementary and secondary school music programs. Course content will change each semester. May be repeated for a total of 2 credit hours.

MUE 3451 ADVANCED WOODWIND TECHNIQUES (1)
PR: Sophomore standing, woodwind instrument major or MUE 3450. The course develops knowledge and skills dealing with advanced principles of teaching and performing on woodwind instruments.
MUE 4341 ADVANCED BRASS TECHNIQUES (1)
PR: Sophomore standing, brass instrument major or MUE 3460. The course develops knowledge and skills dealing with advanced principles of teaching and performing on all brass instruments.

MUE 4340 MUSIC AND THE CHILD (3)
PR: Admission to the College of Education. Music fundamentals, the development of music skills and knowledge of music materials and teaching strategies for presenting music to children in the elementary school.

MUE 4311 MUSIC IN THE ELEMENTARY SCHOOL (3)
PR: CI. A study of principles, techniques, materials, and activities relating to teaching music as they relate to a comprehensive music curriculum in Grades K-6.

MUE 4321 FOUNDATIONS OF CHORAL MUSIC (2)
This course deals with the development of knowledge and skills needed to effectively organize and teach a choral music program for elementary and intermediate grade level students. Include school observation and participation component. Major status or instructor permission required.

MUE 4330 CLASSROOM MUSIC IN THE SECONDARY SCHOOL (3)
PR: CI. Development and implementation of methods and techniques for teaching music to the student not participating in secondary school music performing groups.

MUE 4331 CHORAL METHODS IN THE SECONDARY SCHOOL (3)

MUE 4332 INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOL (3)

MUE 4350 FOUNDATIONS OF INSTRUMENTAL MUSIC (2)
PR: CI. MUE 3450, MUE 3460, MVP 1211. Junior standing. Introduction to the foundation of instrumental music instruction in the elementary and middle school.

MUE 4480 MARCHING BAND TECHNIQUES (2)
PR: Junior standing. This course is required of instrumental music education majors. It will provide the student with the needed skills in creating for and teaching the public school marching band.

MUE 4909 DIRECTED STUDY: MUSIC EDUCATION (1-3)
PR: Senior standing. To extend competency in teaching field, offered only as a scheduled class.

MUE 4936 SENIOR SEMINAR IN MUSIC (3)

MUE 4940 INTERNSHIP: MUSIC EDUCATION (1-12)
CR: MUE 4936. One full semester of internship in a public or private school. In special programs where the internship experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours. (S/U only.)

Theatre

THE 2020 THEATRE FUNDAMENTALS (2)
An introduction to the art of theatre as part of the larger context of the nature of art itself. The approach will be both chronological and multi-cultural. This course open to non-majors and theatre majors should take this course concurrently with their first registration in the group of courses TPA 2200, TPA 2223, TPA 2232, TPP 2110. Required of all theatre majors.

THE 3090C MODERN THEATRE PRACTICE -6A (4)
Initial readings and exercises in theatre; play analysis, performance, and technical theatre for non-theatre majors.

THE 3110 THEATRE HISTORY -XMW (4)
PR: THE 2020. The study of theatrical production in its cultural context, including theatre architecture, scenography, acting and directing. Normally fifteen plays will be read. Required of all theatre majors. Open to non-majors.

THE 3925 PRODUCTION INVOLVEMENT (1)
The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course. May be repeated. Open to non-majors with CI.

THE 4264 HISTORY OF COSTUME (3)
A survey of clothing and dress from Ancient Egypt to the 20th Century with an emphasis on cultural and social influences. (A requirement in the design track/costume.) Open to upper level non-majors with CI.

THE 4266 ARCHITECTURE AND DECOR (3)
A survey of architecture and furniture from ancient Egypt to the 20th Century. (A requirement in the design track/scenic.) Open to upper level non-majors with CI.

THE 4320 THEATRE OF MYTH AND RITUAL: NORTHERN EUROPEAN (950-1600) AND ORIENTAL (400-1200) -6A -XMW (4)
PR: MUE 3100. An investigation into the interrelationship of myth, ritual, and theatre. Considers northern European liturgical and secular plays as compared with Hindu, Chinese, and Japanese drama. Open to upper level non-majors with CI.

THE 4330 SHAKESPEARE FOR THE THEATRE -6A -XMW -XLW (3)
PR: MUE 3100. A course of study of selected plays with special emphasis on their performance values. Open to upper level non-majors with CI.

THE 4360 THE 19TH CENTURY THEATRE REVOLUTION -6A -XLW (3)
PR: MUE 3100. Survey of the European art theatre revolution against the romantic realism of the commercial stage and its effect on subsequent theatre activity. Open to upper level non-majors with CI.

THE 4401 O'NEILL AND AFTER -6A -XMW (3)
PR: MUE 3100. A course in the function of the script for the theatre artist treating materials in the American Theatre from 1915 to 1964. Open to upper-level non-majors with CI.

THE 4435 THEATRE OF PLURALISM -6A -XMW (3)
PR: MUE 3100. The practice of theatre as it reflects cultural heritage, gender, race and sexual orientation. Study of contemporary scripts, critical and artistic statements. Open to upper level non-majors with CI.

THE 4442 THE COMEDIES OF THE CLASSIC AND NEO-CLASSIC STAGE -6A -XLW (3)
PR: MUE 3100. A study of comedic function in scripts from Greek and Roman, Restoration and French Neoclassic of the late 17th century and other plays from the late 18th and late 19th centuries which reflect similar characteristics. Open to upper level non-majors with CI.

THE 4480 DRAMA-SPECIAL TOPICS (3)
PR: MUE 3100. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists. Open to upper level non-majors with CI.

THE 4562 CONTEMPORARY PERFORMANCE THEORY -6A -XMW (4)

THE 4573 HONORS SPECIAL TOPICS (2)
PR: Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacoben Theatre. Enrollment limited to upper
level majors who have been formally admitted to the department honors program. Not available S/U. May not be repeated except under special and unusual circumstances.

THE 4594 HONORS PRACTICUM (3)
PR: THE 4593. Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill. May not be repeated except under special and unusual circumstances.

THE 4595 HONORS THESIS (1-3)
PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.

THE 4905 DIRECTED STUDIES (1-4)
Independent study in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

THE 4927 ADVANCED PRODUCTION INVOLVEMENT (1)
PR: THE 3925 or Cl. The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course. May be repeated. Open to non-majors with CI.

THE 4930 SELECTED TOPICS IN THEATRE (1-8)
PR: Cl. The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

THE 5909 DIRECTED STUDIES (1-6)
PR: CI and CO. Independent study in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

THE 5931 SELECTED TOPICS IN THEATRE (1-8)
PR: Cl. The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format. May be repeated for credit for different topics only.

TPA 2200 THEATRE CRAFTS: STAGECRAFT (3)
Required of all theatre majors. The basic materials, equipment, and skills used in scenic construction and painting for theatrical productions. An introductory course with lab. Open to non-majors.

TPA 2223 THEATRE CRAFTS: LIGHTING (3)
Required of all design majors. This course or TPA 2232 is required of all theatre majors. The basic equipment and skills used in lighting stage productions. An introductory course with lab. Open to non-majors.

TPA 2232 THEATRE CRAFTS: COSTUME (3)
Required of all design majors. This course or TPA 2223 is required of all theatre majors. Open to non-majors. The basic materials, equipment, and skills used in costume construction for the stage. An introductory course with lab.

TPA 2248 WORKSHOP IN STAGE MAKEUP (1)
Beginning theory and practice in make-up for the stage. Open to non-majors. Theatre majors given preference. A studio course.

TPA 3004 MEANS OF VISUAL EXPRESSION (3)
PR: Completion of the four required 2000 level courses. The study of presentational techniques for visual design and technology as applied to the development of visual dynamics. Required of all theatre majors. Open to non-majors with TPA 2200 and CI.

TPA 3221 LIGHTING: THEORY AND PRACTICE (3)
PR: TPA 2223 and TPA 3004. Intermediate lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems. Requirement in the design track/lighting. Open to upper level non-majors with TPA 2223 and CI.

TPA 3260 SOUND FOR THE STAGE (3)
PR: TPA 2223. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in the theatre to create sound effects. Open to non-majors with CI.

TPA 3601 STAGE MANAGEMENT (2)
PR: TPA 2200, TPA 2223, or TPA 2232. A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations. Open to non-majors with CI.

TPA 3810 INTRODUCTION TO PRODUCTION (4)
PR: Completion of the four required 2000 level courses. Principles and methods of puppetry with a historical survey of major forms and practical problems with laboratory production. Open to nonmajors with CI.

TPA 3818 PUPPETRY PERFORMANCE AND PRODUCTION (4)
PR: TPA 3810. The creation, building, rehearsal, and performance of plays for puppet theatre. May be repeated one time for additional elective credit, with CI, to total of 8 hours. Open to non-majors with CI.

TPA 4020 LIGHT DESIGN (4)
PR: ART 3301C, TPA 3221, TPA 4208 and portfolio review. The aesthetic and practical application of the elements of design in lighting for theatre presentation. A requirement in the design track/lighting.

TPA 4040 COSTUME DESIGN (4)
PR: ART 3301C, THE 4264, TPA 2232 and portfolio review. The aesthetic and practical application of the elements of design in costume for theatre presentation. A requirement in the design track/scenic.

TPA 4060 SCENE DESIGN (4)
PR: TPA 4208, THE 4266, ART 3301C and portfolio review. The aesthetic and practical application of the elements of design in scenery for theatre presentation. A requirement in the design track/scenic.

TPA 4231 COSTUME CONSTRUCTION (3)
PR: TPA 2232 and TPA 3304. A practical course in drafting for the stage, scenic construction and application. A requirement in the design track/lighting. Open to upper level non-majors with CI.

TPA 4277 SCENE PAINTING (2)
PR: TPA 3004. A practical course in the painting of stage scenery: media and application. Open to upper level non-majors with CI.

TPA 4280 STAGECRAFT AND DRAFTING (3)
PR: TPA 3004. A practical course in drafting for the stage, scenic design and composition. A requirement in the design track/scenic.

TPA 4293 STAGEPROPERTIES: TECHNIQUES AND MATERIALS STUDY (2)
PR: TPA 3004. Discussion of and experience with materials used in construction of stage properties. Modeling of prototypes and basic casting techniques. Organization of shop. Open to upper level non-majors with CI.

TPP 2110 VOICE-BODY-IMPROVISATION (3)
Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.

TPP 2111 WORKSHOP FOR TEXT ANALYSIS (3)
PR: Completion of the four required 2000 level theatre courses. An introduction to the analysis of distinct styles of plays, normally to include at least one contemporary realistic play and one classical play. Focus will be on the actor's or director's close reading of a script as a preparation for performance. Required of all theatre majors. Open to non-majors with TPP 2110 and CI.

TPP 2500 BODY DISCIPLINES (2)
PR: Completion of four required 2000 level theatre courses. A laboratory course in various disciplines or systems in controlling and understanding the body's motive powers, with focus on their application in the stage performer. Required of all theatre majors with a performance concentration. May be repeated for credit. Open to upper level non-majors with CI.

TPP 3121 IMPROVISATION I (3)
PR: Completion of the four required 2000 level courses. An intensive study in improvisation as an enhancement of the actor's skills. Exercises and theatre games as flexible forms which accommodate improvisation and physical
invention are examined and used to develop group creativity. May be repeated for credit. Open to non-majors with CI.

**TPP 3235 THEATRE FOR SPECIAL AUDIENCES** (3)
PR: Completion of the four required 2000 level courses and/or CI. The preparation and performance of a production for a special audience (ethnic, children, aged, institutionalized, etc.) With CI, may be repeated one time as additional elective credit (total of 6 hours). Open to non-majors with CI.

**TPP 3580 SPECIAL SKILLS IN MOVEMENT** (2)
PR: TPP 3500. Stage combat, circus and acrobatic techniques, and other special techniques of movement. May be repeated for credit. Open to upper level non-majors with CI.

**TPP 3790 VOICE PREPARATION FOR THE ACTOR** (2)
PR: Completion of the four required 2000 level theatre courses. A laboratory in voice production and corrective speech for the actor. Required of all theatre majors with a performance concentration. May be repeated for credit. Open to upper level non-majors with CI.

**TPP 4140 STYLES OF ACTING** (3)
PR: TPP 4150 or TPP 4230, and audition. Methodology and styles. Examination of the actor's craft and skills needed to fulfill the demands of various theatre forms. Special attention will be paid to the history of acting styles. Required of all theatre majors with a performance concentration.

**TPP 4150 SCENE STUDY I** (3)
PR: TPP 3111 and audition. Basic scene study. Special problems in movement and speech to be integrated with character development, rehearsal techniques, and performance composition. Required of all theatre majors with a performance concentration.

**TPP 4152 SCENE STUDY II** (3)
PR: TPP 4150 Intermediate scene study. Required of all theatre majors with a performance concentration.

**TPP 4180 ADVANCED SCENE STUDY** (3)
PR: TPP 4140 and audition. The aesthetics of acting. The various theories of art. A studio course. Required of all theatre majors with a performance concentration.

**TPP 4220 AUDITION WORKSHOP FOR THE ACTOR** (2)
PR: TPP 4150 or TPP 4230. Preparation for professional audition; discussion of professional objectives. Open to upper level non-majors with CI.

**TPP 4230 LABORATORY WORKSHOP IN PERFORMANCE** (3)
PR: TPP 3111 and audition. Special workshop in advanced techniques based upon individual problems and needs. May be repeated twice (for a total of 9 hours credit). Open to upper level non-majors with CI.

**TPP 4250 MUSIC THEATRE WORKSHOP** (3)
PR: TPP 3111. Special problems in acting as applied to the musical theatre with emphasis on singing and dance. May be repeated. Open to upper level non-majors with CI.

**TPP 4310, 4311 DIRECTING I, II** (3,3)
PR: TPP 4150 or TPP 4230. An elective sequence in directing. A workshop course in which the student first encounters the basic tasks of the director by preparing and directing one or two scenes and then progresses to more complex scene work in a variety of styles and finally proceeds to the short play or theatre piece.

**TPP 4600 WRITING FOR THE THEATRE** (3)
PR: THE 3100, TPA 3004, and TPP 3111. An elective sequence in writing, in which the student first encounters the problems unique to dramatic language and situation, then progresses to complexities of character, plot, and stage dynamics. Normally the aim would be to complete several performance-worthy self-contained scenes. May be repeated for credit. Open to upper level non-majors with CI.

**TPP 4920 SENIOR WORKSHOP FOR ACTORS** (3)
PR: TPP 4152, TPP 3500, TPP 3790. A workshop in advanced vocal and movement techniques. Required for all theatre majors with a performance concentration.

**Theatre Education**

**EDG 4320 INTRODUCTION TO CREATIVE DRAMA** (3)
This course for classroom teachers introduces the theory and practice of creative drama as it applies to use by elementary, middle school and secondary school teachers. Beginning with a study of dramatic play as it relates to human development, the course includes basic strategies when using pantomime, voice improvisation, theatre games, and role playing and story dramatization.

**THE 4722 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PRODUCTION PROCESS** (3)
The play production process as it applies to theatre artist-in-schools programs, including development of related classroom workshops and preparation of study guides, and educational program materials as well as design, direction and rehearsal of play and touring methods. May be repeated for elective credit two times; once for major credit.

**THE 4723 THEATRE FOR PRE-SECONDARY SCHOOLS: THE PERFORMANCE PROCESS** (3)
The artistic process of performing for various school audiences and practice conducting classroom workshops following each performance. May be repeated for elective credit two times; once for major credit.

**THE 4761 METHODS OF TEACHING THEATRE FOR ADOLESCENTS** (3)
Methods of effective drama and theatre instruction in middle school, junior and senior high schools, recreation centers, community and professional theatres.
New College of the University of South Florida, located on USF's Sarasota campus, is a distinguished residential college that serves as the honors college of the State University System. It offers a nationally recognized liberal arts education at regular tuition rates. The New College student/faculty ratio is approximately 11:1; ninety-four percent of the faculty hold earned doctorates. Students work closely with faculty members in small classes, tutorials, and on individual projects.

Admission is highly selective. New College looks for students who have demonstrated above average ability, academic motivation and self-discipline. Over half the students are from Florida.

New College offers to students a level of faculty support and facilities for study generally found only at very expensive private colleges. This is possible because the gap between public funding and the actual cost of a New College education is closed by annual grants to the university site from the New College Foundation. The Foundation also raises substantial scholarship funds for meritorious students.

Educational Program

The New College degree is awarded for intensive, individualized study in the liberal arts and sciences. Classes, tutorials and independent study projects are taught the student, with faculty guidance, uses to discover and pursue intellectual and career interests. Study at New College culminates in a senior thesis and baccalaureate examination in the student's chosen area of concentration.

New College offers excellent academic facilities. A $6.1 million library opened on the campus in 1986, housing a collection presently numbered at over 200,000 volumes. The library includes a fully inter-library location to the USF system; over one million volumes, and to a network of thousands of other libraries. It also subscribes to computerized data bases that extend its reach beyond the region. The New College Natural Sciences laboratories, open to students around the clock, feature many research-grade instruments, including a scanning electron microscope. The college has access to significant biological field research sites in the Sarasota area. Open-use computer labs are supplemented by dedicated computers in various disciplines.

Campus-based studies can be supplemented by off-campus field research and internships, and by study abroad. New College participates in the Florida State University Study Centers in London and Florence, as well as in other programs, including USF's International Student Exchange.

Areas of Study

All studies at New College lead to the Bachelor of Arts. Students may concentrate in a specific discipline or they may design, with faculty approval, an interdisciplinary concentration. The faculty offers the following areas of study: Anthropology, Art History, Biology, Chemistry, Classics, Computer Science, Economics, Environmental Studies, Fine Arts, History, Languages, Literature, Mathematics, Medieval & Renaissance Studies, Music, Philosophy, Physics, Political Science, Psychology, Public Policy, Religion, Sociology, Urban Studies.

Elementary through advanced studies in French, German, Russian, Spanish, Latin and Greek language and literature are available.

The majority at New College leads to a wide range of careers. Graduates from New College go to medical, dental and law school. A large number do graduate work in the arts and sciences, leading to teaching, research and careers in government and industry. Others obtain advanced degrees in business, education, religion and architecture. Those not going on for advanced degrees have launched successful careers in journalism, literature, finance, law, medicine, environmental planning and a host of other fields. Quite a few have become entrepreneurs, founding businesses of their own based on skills acquired while students.

Academic Calendar and Residence Requirements

The New College calendar consists of two 15-week semesters and a four-week independent study period in January. Fall semester begins in late August and ends just before Christmas. Spring semester begins the first week in February and ends in late May. Enrollment at New College is full-time.

Students may complete the degree in seven semesters (three and one-half years) as a result of New College's longer academic year and the advanced nature of the program. Three Independent Study Projects are carried out during January and/or the summer recess. Students may register for up to two additional semesters if their academic programs require it; they may also take up to two semesters of academic leave during their tenure at New College without loss of scholarship support. All students must complete a senior thesis and pass a baccalaureate examination based primarily upon the senior thesis.

Transfer students may have the number of semesters required for graduation reduced through the awarding of transfer credit for college-level work done elsewhere. The maximum allowable transfer credit is equivalent to three semesters and one independent study project.

Admissions Requirements

New College actively seeks those students who will benefit most from the demanding academic program and flexible curriculum. The college looks for evidence of intellectual potential, strong academic preparation, self-motivation and initiative, tenacity, curiosity, and concern for others.

Applicants must submit a State University System application. New College's supplementary application, official high school transcript, SAT or ACT scores, a graded research paper from an English or history class, teacher's recommendation, and counselor recommendation. Transfer applicants must also submit transcripts from all colleges or universities they have attended. New College welcomes transfer applicants. A growing number of students come to New College from Florida's two-year community colleges.

New College tuition is the same as for other institutions within the State University System.

Both need-based financial aid and achievement-based scholarships are available to New College students, and about 67% of the students receive some type of direct financial assistance. Students must apply for need-based aid. Achievement scholarships from the New College Foundation are awarded by the New College Admissions Office to those students the college believes will make an outstanding contribution to the New College community.

The New College Admissions Office processes applications on a rolling basis, with decisions beginning about January 15. The Free Application for Federal Student Aid should be completed and submitted as soon as possible after January 1. Application forms and literature can be obtained from the New College Office of Admissions, 5700 N. Tamiami Trail, Sarasota, FL 34243. (813) 359-4269.

Student Life

New College is a residential college, with the majority of its students living on campus or in adjacent neighborhoods. All students attend full-time. Students are challenged to accept major responsibilities for the direction of their own affairs, including their social and extra-curricular activities. The Student Affairs Office, through its professional staff, is responsible for personal counseling, housing, health services, and other support services.

All first-year students live on campus and participate in the community dining plan. Upper-class students may choose college or non-college housing. A medical plan gives students access to a physician.
The College of Nursing is committed to the advancement of nursing and the promotion of health care services through its education, research and service endeavors. To fulfill its commitment to research and education, the college offers an upper division program that leads to a Bachelor of Science degree with a major in nursing.

There are two sequences in the undergraduate program, one for qualified students with no previous preparation in nursing (basic students), and one for registered nurses, who are graduates of diploma or associate degree nursing programs. The basic sequence is designed so that students who have completed the prerequisite/support courses can enroll in the nursing major and complete requirements for the degree in four semesters and a summer session of full-time study on the Tampa campus. The registered nurse sequence is designed so that registered nurses can enroll in the nursing major on a full-time or on a part-time basis at Tampa and on specific, and communities across the lifespan in health promotion, prevention, health restoration and rehabilitation.

The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, and social-economic groups. The College of Nursing uses selective criteria for the admission of students. Limitations on enrollments are determined on the basis of availability of sufficient qualified faculty, laboratory and classroom facilities, and clinical teaching resources. Florida residents are given priority.

Philosophy of Nursing

We believe that professional nursing is a science and an art that provides holistic care aimed at assisting or empowering individuals, families and communities to achieve health. Nursing is a discipline sanctioned by society that is responsive to societal needs.

We believe that nursing has and continues to build a body of scientific knowledge through systematic inquiry, creativity and critical thinking. This scientific knowledge promotes theory-driven and research-based nursing practice that identifies practice, health care delivery and health policy. Nurses use a systematic approach to assess, plan, treat and evaluate health status within the physical, psychosocial, economic, and spiritual domains.

We believe that nurses interact with individuals, groups, families, and communities for the purposes of promotion, education, disease prevention, illness care, and rehabilitation. Nurses assume multiple roles and act in collaboration with other health care disciplines to promote modification of the environment. We believe that environment encompasses all the internal and external influences affecting people. We acknowledge that we live in a world where global events can influence health locally.

We believe that the health of individuals, families, and communities is a perceived state which fluctuates throughout the lifespan. The perceptions of individuals, families, and communities influence their reactions to the environment that lead to actions which promote, maintain, or compromise health. Health is influenced by cultural, social, economic, political, environmental and technological forces, and is expressed through physiologic, psychosocial and spiritual domains. Health is the right of every individual and health care is the responsibility of society.

We recognize that we live in a pluralistic, multicultural world in which nurses value and protect individual rights and freedoms. Health care must be accessible to all persons in society. Nursing initiatives to provide affordable health care and preventive services in diverse environments.

We believe the discipline of nursing is an integral part of the system of higher education and is responsible for the development and dissemination of knowledge. Knowledge is developed through identification of models for systematic thought, development and testing of theories for nursing, and clinical application. With this knowledge, undergraduate students are prepared to enter into professional practice and graduate students into areas of specialized practice and research. The discipline disseminates knowledge through scholarly activities and is responsible for promoting and preserving the historic and philosophic foundation of the profession.

We believe that teaching and learning are interactive processes through which learners have the freedom and responsibility to learn and teachers have the freedom and responsibility to teach. Faculty help students identify their learning needs, design learning activities to meet those needs, and evaluate the outcomes. Learning is an active lifelong process of personal and professional growth, which all members of the discipline pursue to advance the art and science of nursing.

Undergraduate Program Objectives

Upon graduation, graduates will:

1. Use concepts, principles, theories, and models from the natural and social sciences; the arts and humanities; and the art and science of nursing to guide clinical practice.

2. Use clinical judgment as the basis for nursing practice in providing and coordinating care for individuals, families, and communities across the lifespan in health promotion, prevention, health restoration and rehabilitation.

3. Demonstrate understanding of the research process by applying clinical data and research findings to the implementation of care.

4. Interact with other health care professionals, clients and consumers as advocate, teacher, collaborator, communicator, manager, and professional leader to plan, provide, and evaluate essential health services for culturally diverse populations.

5. Examine the impact of health care policy on the health care delivery system within a variety of settings.

6. Practice within the legal ethical parameters of professional nursing.

7. Demonstrate the potential for leadership within the profession and health care delivery system.

8. Demonstrate accountable behavior in the professional nursing role.

Undergraduate Education in Nursing

The undergraduate program in nursing is a limited access upper division major at the University of South Florida. The program has 2 sequences: one for qualified basic students with no previous preparation in nursing and one for qualified registered nurse students who are graduates of an associate degree or diploma program in nursing. Applicants for either sequence must submit applications to both the University and the College of Nursing by the appropriate deadline dates. Applications for admission to the University may be obtained by contacting the Office of Admissions, University of South Florida, Tampa, Florida 33620. Applications for the College of Nursing are available from USF College of Nursing, Office of Student Affairs, MC 6 Box 22, 12901 Bruce B. Downs Blvd., Tampa, Florida 33612.

Applicants must complete the University's Liberal Arts requirements and College of Nursing prerequisites/support courses. These can be completed on the Tampa campus by enrolling in the lower division, or at any community college, university, or college that offers equivalent courses prior to
transfer to USF. Preference for admission will be given to students who have completed the most prerequisites by the application deadline date.

Students who enroll at USF in the lower division must meet the requirements for admission to the University and are advised by Academic Support and Achievement. These students must also submit an application for admission to the College of Nursing for the upper division major.

Basic students are admitted once a year in the Fall semester. The deadline for application to the College is January 5 of the year in which the student plans to enroll. Priority will be given to individuals who have completed all prerequisites by the application deadline.

Registered nurse students are admitted to the College each semester. University admission deadlines are utilized for applications from registered nurses. Registered nurse students are admitted to the College contingent upon completion of admission requirements.

Students desiring to transfer from other nursing programs are eligible for admission to the College on a space available basis. To be considered for transfer into the nursing major, applicants must meet University eligibility requirements.

For more specific information contact the College of Nursing, Office of Student Affairs for overall requirements.

**Overall Requirements**

1. Completion of 60 semester hours of college-level work with a cumulative grade-point average of 2.5. Credit received on the basis of CLEP or Advanced Placement examinations or other appropriate procedures may be included to meet some of these requirements.

2. Completion of the University of South Florida Liberal Arts requirements as part of the above for all students. These requirements may be satisfied by the completion of the following:
   - English
   - Math
   - Algebra (3)
   - Statistics (3)
   - Fine Arts
   - Natural Science
   - Chemistry (4)
   - Nutrition (3)
   - Microbiology (4)
   - Anatomy/Physiology (6-8)
   - Social Sciences
   - Life Cycle (3)
   - Psychology (3)
   - Sociology (3)
   - Historical Perspectives
   - African, Latin American, Middle Eastern, Asian Perspectives

3. Students with an A.A. degree (other than in nursing) will be considered to have met all of the USF Liberal Arts requirements but also must meet specific college requirements.

4. Students are required to meet the University requirement for foreign language.

**Admission Requirements**

In order to be considered for full admission to the college, the applicant must:

1. Submit an application to USF by the appropriate deadline.
2. Submit an application and all supporting materials, including official transcripts, to the College of Nursing by the appropriate deadline.
3. Maintain a minimum grade point average of 2.5 with a grade of "C" or better in each Liberal Arts course required for the major.
4. Complete prior to enrollment in the major all those Liberal Arts courses required for admission to the major.
5. Complete all Liberal Arts courses required for the major with no less than ten (2) repeated courses and not more than one (1) repeat of any given course.

6. Complete the College Level Academic Skills Test (CLAST) or equivalent and the writing and computation course requirements of 6A-10.30 (Gordon Rule).

7. Complete an approved cardiopulmonary resuscitation (BCLS) course prior to enrollment.

8. Provide evidence of current licensure in Florida if enrolling in the program as a registered nurse.

**Conditional Admission Policy for Registered Nurses**

RN students with 5 or less outstanding courses (Liberal Arts/Prerequisites) may be admitted conditionally to the College of Nursing. Students may enroll in the appropriate sequence of the following selected courses while completing these requirements. A contract to remove the deficiencies must be developed and signed by the student and academic advisor prior to enrollment in any nursing course. Nursing courses for the RN Sequence are listed below are in the preferred sequence for enrollment:

- NUR 3113 Culture of Nursing
- NUR 3114 Introduction to Clinical Judgement
- NUR 3064C Health Assessment Across the Life Span
- NUR 4766 Critical Care
- NUR 4765C Rehabilitation Across the Life Span
- NUR 3145 Pharmacology in Nursing Practice
- NUR 3829 Ethical/Legal Aspects in Nursing and Health Care
- NUR 4041 Culture in Nursing Practice
- NUR 4165 Nursing Inquiry

**Specific Course Requirements**

The College of Nursing requires certain courses within the Liberal Arts requirements for the natural, social and behavioral sciences, and mathematics. These requirements are outlined below. Suggested courses are also included. The student must:

1. earn a grade of "C" or better in each course, 2) repeat no course more than once, 3) repeat no more than two (2) courses. Courses taken at another institution will be evaluated individually on the basis of content. Students in Florida community colleges can obtain information about equivalent courses from their counselors or by contacting the College of Nursing Office of Student Affairs (813-974-9305). These requirements apply to first time in college students admitted for Fall of 1994 and thereafter.

**Specific Course Requirements**

1. Mathematics/Quantitative Methods: completion of at least one course in mathematics that meets the Gordon Rule requirement and one course in statistics.
   a. Mathematics - one course in college level algebra or finite math must be completed with a grade of "C" or better. CLEP subject exams are acceptable.
   b. Statistics - one course in statistics must be completed with a grade of "C" or better. STA 2122 or any STA course

2. Natural Sciences: minimum of 16 semester credits (including anatomy, physiology, and microbiology). Each course taken toward meeting this requirement must have been completed with a grade of "C" or better. At least one course must include a laboratory or have a corequisite laboratory course.
a. Chemistry - 4 semester credits. Courses should include content in 1) principles of chemistry, 2) structure of matter, 3) atomic and molecular structure, 4) states of matter, 5) chemical formulas and nomenclature, 6) solutions, 7) chemical kinetics and equilibrium, 8) theory and practice of quantitative analysis, 9) organic chemistry. "CHM 2030, 2031; CHM 2041, 2046 can be met with CLEP. *Chemistry sequence for non-science majors.

b. Microbiology - one course. CLEP is not acceptable. MCB 3030C. The ACT/PEP examination in microbiology is acceptable.

c. Anatomy and Physiology - one 6 credit course. A combined course in anatomy and physiology which is equivalent to BSC 2092 is acceptable or two 4 credit individual courses. The ACT/PEP examination in anatomy and physiology is acceptable.

d. Nutrition - one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable. HUN 3000.

C &P Examinations

In accordance with University policies, College Level Examination Program (CLEP) general and subject examinations may be taken in several areas. CLEP examinations must be taken according to the University or community college policies related to CLEP. The CLEP general examinations apply toward the distribution requirements at USF, and successful performance results in credit for any or all of the required areas. In addition, credit may be earned for a number of College of Nursing support courses, including: English Composition ENC 1101, 1102; General Chemistry CHM 2030 and CHM 2031 or CHM 2041 and CHM 2046. Additional information may be obtained from the Office of Evaluation and Testing, University of South Florida.

ACT/PEP and College of Nursing Examinations

Successful completion of the following examination(s) can be used to fulfill course requirements as designated below:

1. College of Nursing - Nutrition Challenge Examinations: a total of 3 semester credits can be earned by any undergraduate student to meet the course requirement in nutrition. Information about the College examination in nutrition may be obtained by contacting the College of Nursing Office of Student Affairs, University of South Florida.

2. Registered nurses who are graduates of diploma programs may receive up to 23 semester general elective lower level credits through successful completion of the ACT/PEP examinations in nursing. These credits do not apply toward meeting the University requirement of 40 upper level credits, or toward meeting the requirements of the upper level nursing major. The credits earned by passing the ACT/PEP examinations in nursing apply only to the B.S. degree with a major in nursing offered by the College of Nursing.

3. Registered nurses who are graduates of Florida associate degree programs will receive up to 23 semester lower level credits for their previous nursing education. Graduates of other associate degree nursing programs may receive up to 23 credits after individual evaluation of their transcripts.

4. Both basic and registered nurse students may earn up to 6 semester credits and fulfill the college's requirement for an anatomy and physiology through successful completion of the ACT/PEP examination in anatomy and physiology, and up to 3 credits in microbiology through successful completion of the ACT/PEP examination in microbiology. ACT/PEP examination information may be obtained from the Office of Student Affairs, College of Nursing.

Degree Requirements

Students will be certified for the Bachelor of Science degree with a major in nursing upon completion of 124 semester hours composed of Liberal Arts requirements, science support courses (natural, social/behavioral), required nursing courses, upper level electives or exit requirements.

A minimum grade of "C" or better must be attained in each course in the major and cumulative grade point ratio of 2.0 or better must be maintained throughout the program. At least 40 semester hours must be upper level work (courses numbered 3000 or above).

Nursing Courses - Basic Baccalaureate Sequence

Basic Baccalaureate students must meet the following courses in the five semester sequence:

Junior Year (2 semesters)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>NUR 411L</td>
<td>Introduction to Clinical Practice (2)</td>
</tr>
<tr>
<td>NUR 4526</td>
<td>Critical Care (3)</td>
</tr>
<tr>
<td>NUR 4527</td>
<td>Psychiatric/Mental Health (2)</td>
</tr>
<tr>
<td>NUR 4528</td>
<td>Leadership/Management (3)</td>
</tr>
</tbody>
</table>

Senior Year (3 semesters)

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<th>Course</th>
<th>Description</th>
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</tr>
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</table>

Nursing Courses - Registered Nurse Sequence

(3 semesters)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3111</td>
<td>Culture of Nursing (2)</td>
</tr>
<tr>
<td>NUR 3114</td>
<td>Introduction to Clinical Judgement (3)</td>
</tr>
<tr>
<td>NUR 3145</td>
<td>Pharmacology in Nursing Practice (2)</td>
</tr>
<tr>
<td>NUR 3146</td>
<td>Community Health (2)</td>
</tr>
</tbody>
</table>

Prerequisites (State Mandated Common Prerequisites)

The University and the College of Nursing work closely with the community colleges within the USF service area. The University's Liberal Arts requirements and College of Nursing's...
prerequisite/support courses may be completed through the A.A. degree at the community college. A minimum of 60 semester hours must be completed at the university unless prior approval is secured from the university advisor listed. If a student wishes to transfer without an A.A. degree and has fewer than 60 semester hours of acceptable credit, the student must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. The A.A. degree satisfies admission requirements only if courses are carefully selected and include the required major prerequisite/support courses.

The College of Nursing requires certain courses within the Liberal Arts requirement for the natural, social and behavioral sciences, and mathematics as listed under the heading “Specific Course Requirements.” Students must complete the prerequisite courses listed below prior to being admitted to the upper-division major. Students who do not complete these prerequisites can be admitted to the University, but not to the upper-division major. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

- BSC X086C Human Anatomy & Physiology I
- or Any Human Anatomy & Physiology I course, 3-4 semester hours
- BSC X086C Human Anatomy & Physiology II
- or Any Human Anatomy & Physiology II course, 3-4 semester hours
- DEP X004 Human Growth & Development
- or Any Human Growth & Development course, 3 semester hours
- CHM XXXX Comprehensive General Chemistry,
  4-6 semester hours
- HUN X201 Human Nutrition
- or Any Human Nutrition course, 3 semester hours
- MCB X010C Microbiology
- or Any Microbiology course, 4 semester hours
- PSY X012 Introduction to Psychology
- or Any General Psychology course, 3 semester hours
- STA X014 Statistics
- or Any Statistics course, 3 semester hours
- SYG X000 Introduction to Sociology
- or Any Introduction to Sociology course, 3 semester hours

Direct residency questions to the Office of Admissions, SJC 1036, 4202 Fowler Avenue, Tampa, Florida 33620-6900 or phone 813/974-3350.

All eligible applicants may seek advisement and information through the Adult and Transfer Student Services office of the University, SJC 1001, 813/974-6444. Enrollment of all students is contingent upon verification, through official transcripts, of satisfactory completion of all requirements for admission and availability of faculty and clinical resources.

Nursing Faculty


Nursing Courses

**HUN 2201 NUTRITION** (3)

- PR: Course work in chemistry and biology or permission of faculty. Open to majors and non-majors. The study of fundamental principles of normal nutrition as they relate to human life and growth from conception through senescence, interpretation of current nutrition information, and application of nutrition knowledge in the establishment of good eating habits.

**NUR 3064C HEALTH ASSESSMENT ACROSS THE LIFE SPAN** (3)

- PR: Admission to nursing major or CI. Focuses on history taking, physical appraisal skills basic to biopsychosocial assessment across the life span. Emphasizes assessment process through the diagnostic reasoning process to identify alterations in functional health patterns.

**NUR 3113 CULTURE OF NURSING** (2)

- PR: Admission to nursing major or CI. Introduction to evolving role of the professional nurse. Examines historical context of nursing’s development, nursing’s theoretical progression, and wellness-focused practice as a culture.

**NUR 3114 INTRODUCTION TO CLINICAL JUDGMENT** (3)

- PR: Concurrent with NUR 3114L. Admission to nursing major. Focuses on the basics of concepts of health, functional health patterns and communication. Critical thinking is used to analyze the effects of changes in health status and nursing implications.

**NUR 3114L INTRODUCTION TO CLINICAL PRACTICE** (PR)


**NUR 3145 PHARMACOLOGY IN NURSING PRACTICE** (2)

- PR: Admission to nursing major or CI. Examines pharmacotherapeutics; pharmacodynamics; pharmacokinetics; adverse reactions and contraindications; therapeutic indications according to functional health patterns; and nursing implications.

**NUR 3215 ADULT HEALTH I** (3)

- PR: NUR 3113, 3114, 3114L, 3064C. Concurrent with NUR 3215L. Admits to nursing major. Emphasizes the role of the nurse in initiating and maintaining therapeutic and health maintenance, nutritional/metabolic, elimination, and sexuality/reproductive functional health care patterns.

**NUR 3215L CLINICAL PRACTICE IN ADULT HEALTH I** (3)


**NUR 3284 GERONTOLOGICAL NURSING** (2)

- PR: NUR 3113, 3114, 3114L, 3064C. Nursing Majors. Focuses on theories of aging and human development; assessment of functional health patterns; and planning health promotion and disease prevention activities with older adults. Critical thinking is used to analyze the effects of interventions on individuals and groups.

**NUR 3829 ETHICAL LEGAL ASPECTS IN NURSING AND HEALTH CARE -XWMW** (3)

- PR: NUR 3113 or CI. Nursing Majors. Introduction to contemporary bioethical and legal issues confronting health care providers in a variety of settings. Focuses on identification of legal and ethical principles underlying the decision-making process in nursing and health care.

**NUR 4101 CULTURE IN NURSING PRACTICE** (2)

- PR: NUR 3113 or CI. Nursing Majors. Introduces knowledge and skills needed to give culturally congruent nursing care to people from diverse cultural groups. Compares and analyzes health-related practices, values, beliefs among major cultural groups.

**NUR 4165 NURSING INQUIRY** (2)

- PR: NUR 3113, Nursing Majors or CI. An exploration of the
diagnosis and treatment of HIV disease. Topics include the etiology, spectrum, and treatment of HIV disease; international perspectives; issues of race, gender, and ethnicity; values, ethics, and their influences on responses to HIV; and how the media has shaped the epidemic.

NUR4216L CLINICAL PRACTICE IN ADULT HEALTH II (3) PR: NUR 3829, 3145, 3215, 3215L, 3284C. Concurrent with NUR 4216L. Nursing Majors. Clinical intervention for adults with selected health problems related to activity/exercise and cognitive/perceptual health patterns. Critical thinking is used to analyze the effects of changes in health status.

NUR4245S WELLNESS: HEALTH PROMOTION AND MAINTENANCE IN NURSING (2) Introduction to concepts of wellness and health promotion. Concepts of wellness include nutrition, exercise, rest, activity, spiritual factors and their relationship to wellness and health promotion and application to nursing practice. Open to non-nursing majors.

NUR4395C SPECIALIZED TECHNIQUES IN CHILD HEALTH ASSESSMENT (3) Taught to help students establish and interpret the NCAT II and the HOME instruments. Introduces observer reliability will be achieved through observation of parent-child interaction.

NUR4525S PSYCHIATRIC/MENTAL HEALTH (2) PR: NUR 4616, 4616L, 4636, 4636L. Concurrent with NUR 4525L. Nursing Majors. Explores mind, body, spirit alterations in functional health patterns experienced by clients with acute or chronic mental health illnesses. Examines psychopathology, psychopharmacologic therapies and community resources.

NUR4525L CLINICAL PRACTICE IN PSYCHIATRIC/MENTAL HEALTH (1) PR: NUR 4616, 4616L, 4636, 4636L. Concurrent with NUR 4525. Nursing Majors. Focuses on clinical intervention using critical thinking and communication skills with clients who require complex psychiatric rehabilitative care. Opportunities are offered to apply knowledge of psychopathology and psychopharmacologic therapies.


NUR4616L CLINICAL PRACTICE IN FAMILY HEALTH (3) PR: NUR 4216, 4216L, 4041. Concurrent with 4616L. Nursing Majors. Includes therapeutic interventions for childbearing and childrearing families within a variety of settings.

NUR4636 COMMUNITY HEALTH (2) PR: NUR 4216, 4216L, 4041. Concurrent with 4636L. Nursing Majors and admission to the major for RN or BS students. Focuses on theories/concepts essential to community health nursing, emphasizing illness prevention and health promotion of individuals, families, communities. Roles of community health nurses and environments that affect health are explored.

NUR4636L CLINICAL PRACTICE IN COMMUNITY HEALTH (2) PR: NUR 4216, 4216L, 4041. Concurrent with NUR 4636. Nursing Majors and admission to major for RN or BS students. Provides opportunities to engage in community health nursing practice to promote health and prevent illness with individuals, families, and communities.

NUR4636C REHABILITATION ACROSS THE LIFE SPAN (2) PR: NUR 4616, 4616L, 4636, 4636L. Nursing Major or CI. Basic concepts of rehabilitation related to human responses. Analysis of the changes in health status and nursing implications.

NUR4765 CRITICAL CARE (2) PR: NUR 4616, 4616L, 4636, 4636L. Nursing Majors or CI. Basic concepts of critical care nursing, focusing on selected health problems to analyze the effects of changes in health status.

NUR4792 SEXUALLY TRANSMITTED DISEASES AND HIV INFECTION (2) Open to students and caregivers in health related fields. Examines prevalent sexually transmitted diseases and HIV infection from a nursing perspective. Emphasis is on epidemiologic principles, immunology, treatment, prevention, and ethical/legal considerations.

NUR4905C INDEPENDENT STUDY (1-5) Open to students and caregivers in health related fields. Examines prevalent sexually transmitted diseases and HIV infection from a nursing perspective. Emphasis is on epidemiologic principles, immunology, treatment, prevention, and ethical/legal considerations.

NUR4933 SELECTED TOPICS IN NURSING (2-8) PR: Junior or senior standing or permission of faculty. Content will depend upon student demand and faculty interest and may focus on any area relevant to nursing practice. May involve class, seminar, and/or clinical laboratory and may be repeated for different topics.

NUR4936 HONORS SEMINAR (4) PR: Acceptance into the honors program in nursing and CI. The Honors Seminar is designed to provide selected students with an opportunity to explore major works of nursing in-depth and to present, discuss, and defend a proposal for a research project.

NUR4941L PRECEPTORSHIP (3) PR: NUR 4525, 4525L, 4616, 4616L, 4636, 4636L. Nursing Majors. Individually contracted practicum collaboratively planned by students, faculty and agency personnel.

NUR4975 HONORS THESIS (2) PR: Honors Seminar and CI. The student under the supervision of a faculty advisor will formalize, conduct, analyze and report in writing and orally a research project in nursing. May be repeated up to 2 credit hours.
The College of Public Health began offering courses in 1984 and is fully accredited by the Council on Education for Public Health.

The primary aim of the College is to provide trained health professionals who can meet the pressing health needs of the State and nation. The College also serves as a State resource for public health research and information. Often cited as a bellwether state, due in part to its diverse population, Florida serves as an excellent environment for studying current and emerging health care issues.

The field of public health is broad. It focuses upon the prevention of illness, the promotion of health, the control of infectious and chronic diseases and the methods for providing care to targeted populations such as those faced with geographic, financial, cultural and other access barriers.

Public health is concerned with keeping health care costs down and finding cost-effective ways to deal with the medically indigent population. It serves to address environmental issues as they affect populations as well as health and safety in the workplace.

Despite this diversity, the common focus of public health education is on preventing disease and promoting health in populations.

The Department of Community and Family Health offers an accelerated entry program which enables qualified students to enter the Master of Public Health (MPH) degree program with a concentration in Public Health Education following the completion of 90 semester hours of undergraduate study (usually the end of the junior year). It is recommended that students enroll in undergraduate programs related to the field of public health. These programs include social sciences, natural sciences, behavioral sciences, pre-med, nursing, education, etc. Full-time students are able to complete Master’s degree requirements in 2 to 2-1/2 years. Interested individuals are encouraged to contact a health education faculty advisor during the term in which they expect to complete 60 undergraduate semester hours.

The MPH is a professional, non-thesis degree. The course of study is designed to prepare professional health educators to develop, implement, manage and evaluate programs which focus on health promotion and disease prevention. Individual and public health issues encompass the interrelationships of social, behavioral, legal, medical and economic factors. Therefore, the program emphasizes a multidisciplinary approach of developing strategies for the efficient utilization of health services, the adoption of self-care practices, and the promotion of healthier lifestyles. Career opportunities are available in a variety of work settings including hospitals and ambulatory care facilities, managed care organizations, voluntary health agencies, public and private school systems, colleges and universities, local and state health agencies, private industry and international health organizations.

Students seeking admission to the MPH accelerated degree program must have completed 90 undergraduate semester hours, achieved at least a 3.0 GPA, or a combined verbal and quantitative score of at least 1000 on the GRE, and satisfied the CLAST and Rule 6A-10.3 requirements.

Undergraduate students seeking careers in public health including Health Administration and Management, Environmental Health, Industrial Hygiene, Safety Management, Tropical Public Health, Health Education, Maternal and Child Health, Social and Behavioral Sciences, Epidemiology and Biostatistics should refer to the USF Graduate Catalog in order to plan an undergraduate program that will meet the College of Public Health admission requirements for graduate work.

Students interested in these programs should contact the Office of Academics at the College of Public Health for a career guide and college catalog, 974-6665.

Public and Community Health Education Courses

**HSC 2100 CONTEMPORARY HEALTH SCIENCE -SS** (3)
A comprehensive approach to health concerns and problems in contemporary society, including methods of assessing individual health needs.

**HSC 4203 INTRODUCTION TO PUBLIC HEALTH** (3)
A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

**HSC 4541 HUMAN STRUCTURE AND FUNCTION** (3)
PR: Fundamentals of biology with lab or Cl. Major concepts of the structure and function of the human body systems and methods by which these concepts may be taught.

**HSC 4554 SURVEY OF HUMAN DISEASES** (3)
PR: Fundamentals of Biology with lab or Cl. An overview of the nature, types, and mechanisms of diseases of the major body systems.

**HSC 4933 SPECIAL TOPICS: PUBLIC HEALTH** (1-6)
PR: Cl. The content of this course will be governed by student demand and instructor interest. May be repeated for credit for different topics only.
The Dean of Undergraduate Studies has overall responsibility to enhance the quality of the learning experience in undergraduate programs across all colleges and campuses of the University. The Dean is committed to providing vision and leadership in undergraduate education and to serving the needs of all undergraduate students including those with non-traditional and diverse backgrounds. The Dean serves as the Director of Community College Relations and as such is charged with promoting collaborative relationships and enhancing the articulation between USF and Florida’s community colleges. The Dean is responsible for negotiating articulation agreements with community colleges and area school boards.

The Dean of Undergraduate Studies also is the University Student Ombudsman for undergraduate academic matters. The function of the Student Ombudsman is to handle student appeals concerning access to courses and credit granted toward the student’s degree. Students who wish to make an appeal should contact the Office of the Dean of Undergraduate Studies. Please contact the Office of the Dean of Undergraduate Studies at SVC 2002, 974-4051 for further information.

The Dean supervises several units and undergraduate academic programs that are not the purview of a single school or college including the offices of Evaluation and Testing, International Student Exchange Program, Off-Campus Term Program, University Honors Program, Air Force ROTC Program, and Army ROTC Program; administers undergraduate student academic appeal processes and waiver policies; acts on recommendations from the Undergraduate Council, the Academic Regulations Committee, the Council on Academic Advising, and the Faculty Committee on Student Admissions; and develops articulation agreements with the community colleges and the area high schools.

Air Force ROTC

The Air Force Reserve Officers Training Corps (AFROTC) curriculum includes 12-16 course hours of instruction by active duty Air Force officers over a two- to four-year period. A student who completes the AFROTC program will receive an Air Force commission as a second lieutenant and is guaranteed a position in the active duty Air Force at a starting salary of approximately $28,000 per year.

AFROTC is offered as either a two-or four-year program. The four-year program normally requires a student to successfully complete all degree requirements for award of a bachelor’s degree, 16 course hours of AFROTC classes, and a four-week field training encampment between his/her sophomore and junior years. The two-year program is for students who do not enroll in AFROTC during their freshman and sophomore years the opportunity of taking AFROTC. Students should apply for the two-year program by December of the sophomore year. The student attends a six-week field training encampment in the summer prior to program entry. Upon entering the program, the students then complete all undergraduate degree requirements, and 12 credit hours of AFROTC courses.

ROTC students take a 1.5 hour non-credit leadership laboratory in addition to the academic classes. Students wear the Air Force uniform during these periods and are taught customs and courtesies of the Air Force. Leadership Laboratory is open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the AFROTC Proctor. The student is responsible for attending all classes and participating in all leadership laboratory activities.

AFROTC 4, 3, and 2-year scholarships are available for eligible applicants. These scholarships pay all tuition, fees, books, and a $150 per month tax-free stipend. In addition to the program requirements, scholarship recipients must also complete a second佣金 composition course. Non-scholarship students in the final two years of the program are eligible for the Professional Officer Commissioning Program (POCI) and the monthly $150 tax-free stipend. Qualified POCI students receive up to $2,000 a year which covers tuition, fees, and books.

Interested in more information about scholarship criteria should contact the AFROTC Department.

Students interested in enrolling in the four-year or two-year program can begin the application process. They can begin the application procedures through the ROTC office at HSM 111 or by registering for the appropriate "AFR" course through university registration. Veterans, active duty personnel, and graduate students are encouraged to inquire about special accelerated programs designed for them. The AFROTC phone number is (813) 974-3367.

Aerospace Studies Faculty

Professor: Lt Col Jan T. Kinner; Assistant Professors: Capt Kathy Winters, Capt Stacie Neff, Capt Walter Rice.

Aerospace Studies Courses

AFR 1101 THE AIR FORCE TODAY: ORGANIZATION AND DOCTRINE

Introduction to the Air Force in the contemporary world through a study of its total force structure and mission.

AFR 1120 THE AIR FORCE TODAY: STRUCTURE AND ROLES

A study of the strategic offensive and defensive forces, general purpose forces, and aerospace support forces that make up the Air Force of today.

AFR 3001 LEADERSHIP LABORATORY

Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minutes per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student’s leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.

AFR 2000 ENHANCED PHYSICAL FITNESS TRAINING

Required of all students in AFR 2000-, 3000- and 4000-level classes. It meets twice a week for an hour each session. Concentrates on motivational physical fitness, healthy lifestyle and cadet esprit.

AFR 2330 U.S. AIR POWER: ASCENSION TO PROMINENCE

A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWII and World War II and how it affected the evolution of air power concepts and doctrine.

AFR 2140 U.S. AIR POWER: KEY TO DETERRENCE

A historical review of air power employment in military and nonmilitary operations in support of national objectives. Emphasis is on the period from post WWII to present.

AFR 2150 FIELD TRAINING

Field Training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of Field Training, usually between their sophomore and junior years. Students applying for entry into the two-year program must successfully complete six weeks of Field Training prior to enrollment in the Professional Officer Course (POC). The major areas of study in the Field Training program include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions and Air Force environment, and physical training.

AFR 2160 AIR FORCE LEADERSHIP AND MANAGEMENT

An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer’s professional skills as an Air Force officer (officership). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.
AFR 3231 AIR FORCE LEADERSHIP AND MANAGEMENT-II (3)
A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes.

AFR 4201 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY I (3)
A study of the Armed Forces as an integral element of society, with an emphasis on American civil-military relations and context in which U.S. defense policy is formulated and implemented. Special themes include: societal attitudes toward the military and the role of the professional military leader-manager in a democratic society.

AFR 4211 NATIONAL SECURITY FORCES IN CONTEMPORARY AMERICAN SOCIETY II (3)
A continuation of the study of the Armed Forces in contemporary American society. Concentration is on the requisites for maintaining adequate national security forces; political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the variables involved in the formulation and implementation of national security policy; and military justice and its relationship to civilian law.

Army ROTC (Reserve Officers' Training Corps)
The Department of Military Science for Army Reserve Officers Training Corps (ROTC) was established to select and prepare students to serve as officers in the Regular and Reserve components of the United States Army. The curriculum is designed to develop the students' leadership potential, as well as improve the students' planning, organizing, and managerial skills.

Army ROTC training is divided into two phases: The first two years constitute the Basic Course; the last two, the Advanced Course. The Department offers both a four- and a two-year program, each leading to a commission as a second lieutenant in the United States Army. The four-year program requires completion of the Basic Course, a five-week field training course, and the second two-year course allows academic juniors to enter the Advanced Course and to be commissioned as a second lieutenant in two years. Students with prior active military service or previous training at military schools may exempt some or all of the Basic Course. Students with questions concerning the various options should contact the Professor of Military Science for more information. Army ROTC training is offered to both men and women students and provides free uniforms and textbooks. Enrollment is open to qualified students at all levels, including graduate students. Offerings are published each semester.

Scholarships are awarded on a competitive basis in engineering, nursing, physical science, business, social science and other fields. The scholarship pays for tuition, books, lab fees, and certain other academic expenses. All Advanced Course and scholarship students receive $150.00 per month for subsistence. This is in addition to the pay of approximately $700.00 which the students receive while attending the five-week field training course at the Summer Advanced Camp.

Additional skills training at the Airborne School, Air Assault School, and the Northern Warfare School is available to both Basic and Advanced Course students during semester breaks. Additional skills training is also available during the academic year to include first aid, rappelling, orienteering, etc.

**Basic Course:** The Basic Course consists of four semesters of classroom instruction of one hour each week. Students incur no military commitment by participating in the Basic Course. Any prior military service, Reserve or National Guard Basic training, or other ROTC training may qualify for full or partial completion of the Basic Course.

**Advanced Course:** The Advanced Course is designed to prepare the student who desires to be a Professional Army Officer for duty, either Reserve, National Guard, or Active Army. The training consists of four semesters of classroom instruction of three hours each week, lab, field training exercises, and a five-week training phase at summer Advanced Camp.

The newly commissioned officer can be guaranteed Reserve or National Guard duty, or compete for an Active Duty commission. Prior to commissioning the student may request duty as a pilot in the Army Aviation field, or serve in the fields of medical, personnel, administration, law, management, law enforcement, engineering, combat arms, or select duty from a list of many more opportunities.

**Requirements for an AROTC Commission:** Students who desire to earn a commission as a second lieutenant in the United States Army must meet the following requirements; four semesters of the ROTC Advanced Course, successfully complete the Professional Military Education Courses (written communication skills, computer literacy, and military history), attend Advanced Camp, maintain and graduate with a minimum of a 2.0 GPA, pass the Army Physical Readiness Test and meet the height and weight, and other requirements of the United States Army.

**Military Science Faculty**
Professor: LTC Gloria A. Atkinson; Assistant Professors: CPT Al Carroccetto, CPT Robert Hardbarger, CPT John Wright, MSG Kevin Bates.

**Military Science Courses**
Students not attending on an Army Scholarship may take the 1000 and 2000 level courses with no obligation to the Army. Army Scholarships and Service obligation options are discussed in class.

**MIS 1000 ORGANIZATION OF THE ARMY AND ROTC** (1)
Introduction, purpose, and obligation of the Army and ROTC. Introduction to military customs and traditions; rank structure and the role of an Army officer.

**MIS 1400 FUNDAMENTALS OF LEADERSHIP DEVELOPMENT** (1)
Basic leadership techniques and principles, professional ethics, senior-subordinate relationships, leadership problems, basic counseling and management techniques.

**MIS 2601 MILITARY TRAINING MANAGEMENT AND INSTRUCTIONAL TECHNIQUES** (1)
Develops an understanding of the fundamental concepts involved with methods of instruction, training management and curriculum development in the military. Actual student preparation and presentation of instruction will be an integral part of the course.

**MIS 2610 LEADERSHIP ASSESSMENT** (1)
Course will include an introduction to interpersonal skills required for effective leadership and diagnostic leadership assessment exercises. Topics will also include immediate first aid and injury prevention.

**MIS 2601L LEADERSHIP LABORATORY** (0)
Consists of two blocks of instruction per week and directly supports classroom instruction. Centered around hands-on experience which develops the student's potential. Includes instruction on drill and ceremonies; custom and courtesies, tactics, weapons and other related subjects. Registration required for all cadets.

**MIS 3302 SMALL UNIT OPERATIONS** (3)
PR: Permission of Department. Provides training required by junior officer to direct and coordinate individuals and small units in the execution of offensive and defensive tactical missions. Also provides exposure to military weapons and communications systems found at this level.

**MIS 3404 LEADERSHIP FUNDAMENTALS TACTICS AND CAMP PREPARATION** (3)
PR: Permission of Department. Improves cadet proficiency in those military subjects necessary to meet minimum standards of technical competence and self-confidence required of a junior officer in the U.S. Army. Prepares cadets for participation at Advanced Camp. Major emphasis during
course is placed on physical training and field training exercises.

MIS 4930 ADVANCED DIRECTED STUDY AND RESEARCH (1-3)
PR: CI and permission of Professor of Military Science.
Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal. May be repeated for credit.

Evaluation and Testing

The office of Evaluation and Testing serves four principal functions:
1. Admissions, Academic and Placement Testing: Tests required for admission to colleges, graduate and professional schools as well as many other special tests are administered by this office. Examples are the SAT, ACT, CPT, CLAST, GRE, MCAT, and LSAT.
2. Scanning and Scoring Services: Analysis and advisory services are conducted in the examination of the need for ethical conduct, greater awareness and sensitivity to ethical issues, and the opportunity to apply these abilities in real world case study situations. Included are seminars for the new lieutenant with his/her relationship to NCOs, company grade officers, and senior officers.

University Honors Program
Superior students may avail themselves of Honors opportunities at USF. University Honors Program-Four Year Track is designed for first-time-in-college students. University Honors Program-Two Year Track is designed for transfer or upper-level students. These exciting programs are grounded in the liberal arts tradition and intended for students regardless of major. The primary goals of University Honors are the development of critical thinking skills, an appreciation of the liberal arts tradition and the development of creative, independent thought.

Students in the Four Year Program take nine Honors courses that examine the nature of human knowledge, ethics, interdisciplinary approaches to the sciences, social sciences, arts and humanities, multiculturalism, and major works and major issues. A Senior Thesis is the culminating of the Honors experience. (Course descriptions appear later in the catalog.) Students are required to have six semester hours of English, six semester hours of Mathematics, and five to ten hours of foreign language. Honors students may satisfy the English and Math requirements through AP, IB, or CLEP. University Honors Program-Four Year Track students satisfy USF Liberal Arts and Exit Requirements by completing the core Honors courses and the English, Math and foreign language requirement. Enrolling in University Honors-Four Year Track does not increase academic work-load or the number of credits needed to graduate.

Potential University Honors Program-Four Year Track students are actively recruited, but any interested student who feels that he/she is qualified may request admission. Students typically have 3.7 high school GPAs and 1270 SAT I or 29 ACT scores. Many scholarships are available for Honors students.

Admission to the University Honors Program is by invitation from among the University's outstanding teacher-scholars. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, or Personal Ethics Development.

USF
IDH 4000 HONORS PROGRAM SEMINAR: MAJOR WORKS/MAJOR ISSUES (4) PR: IDH 2010. This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area.

IDH 4200 GEOGRAPHICAL PERSPECTIVES HONORS (3) PR: IDH 2010. An introduction to African, Latin American, Middle Eastern, or Asian perspectives focusing on social, political and economic, artistic, cultural and intellectual subject matter. The material will be presented within a geographical, chronological, and humanities background.

IDH 4970 HONORS THESIS (3) PR: Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

St. Petersburg Campus Honors Program
The St. Petersburg Campus offers an interdisciplinary Campus Honors Program to superior students in all majors who have transferred to USF with or without an A.A. degree. The Campus Honors Committee and Director determine admission to the program. Applications should be submitted to the Director. Students will participate in two Honors Seminars and complete either an Honors Project or Honors Thesis. The fourteen (14) hours of Campus Honors Program courses satisfy the Liberal Arts Exit Requirements. Scholarships are available to those admitted to the program.

St. Petersburg Campus Honors Program Courses
IDH 4000 HONORS PROGRAM SEMINAR: MAJOR WORKS AND MAJOR ISSUES (4) PR: IDH 2010. This course explores major works and major issues in a variety of disciplines. Each section will be devoted to content in a different academic area. Course is taken for two semesters.

IDH 4970 HONORS THESIS (3) PR: Senior Honors Standing. The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.

International Student Exchange Program (ISEP)
Undergraduate Studies maintains cooperating programs for the exchange of undergraduate students with various universities in England, France, Scotland, Australia, Israel, Sweden, Japan, Korea, Russia, Wales and Mexico. These exchanges are provided through the International Student Exchange Program (ISEP). Because new schools are continuously added to the ISEP, an updated listing of exchange universities is available from the ISEP office.

Courses Outside Undergraduate Colleges
These courses are open to all students in the University.

Architecture
ARC 4784 THE CITY - 6A -XMW (3) This course examines the history of the city, as both idea and reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

Cooperative Education
IDS 3949 COOPERATIVE EDUCATION (0) PR: 60 hours of academic credit, acceptance in Cooperative Education Program. (S/U only.)

Medicine
BMS 4402 PRINCIPLES OF HUMAN PHARMACOLOGY -NS (3) Pharmacodynamics (effects), pharmacokinetics (absorption, distribution, metabolism, excretion) and side effects/toxicity of drugs. Designed to provide a basic understanding of mechanism of drug action resulting from modifying biologic processes. Not available on S/U basis.
GENERAL COURSE INFORMATION
UNIVERSITY OF SOUTH FLORIDA - 1998/99 UNDERGRADUATE CATALOG

NOTE: The State Department of Education is charged with the development and coordination of a common course designation and numbering system for community colleges and the State University System which will improve program planning, increase communication among community colleges and universities, and facilitate the transfer of students. As part of this effort, changes will be made system-wide in course prerequisites, course levels, etc. These changes are not reflected in this catalog and will be implemented during the academic year. Students should check with the academic advising office in their college or regional campus, the Center for Academic Advising for undeclared majors, or the Office of the Dean of Undergraduate Studies for current information.

Courses offered for credit by the University of South Florida are listed on the following pages in alphabetical order by college and subject area.

The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by commas indicate unified courses offered in different semesters:

AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)
HUM 4905 DIRECTED RESEARCH (1-5)

The abbreviation "var." also indicates variable credit:

MAT 7912 DIRECTED RESEARCH (var.)

The following abbreviations are utilized in various course descriptions:

PR Prerequisite
CI With the consent of the instructor
CC With the consent of the chairperson of the department or program
CR Corequisite
Lec Lecture
Lab Laboratory
Dem Demonstration
Pro Problem
Dis Discussion

SPECIAL INFORMATION COURSE CODES

6A Courses to satisfy Rule 6A-10.30 (Gordon Rule)
EC Course fulfills part of the Liberal Arts General Education Requirement for English Composition
FA Course fulfills part of the Liberal Arts General Education Requirement for Fine Arts
HP Course fulfills part of the Liberal Arts General Education Requirement for Historical Perspectives
NS Course fulfills part of the Liberal Arts General Education Requirement for Natural Sciences
AF Course fulfills part of the Liberal Arts General Education Requirement for African, Latin American, Middle Eastern, or Asian Perspectives
QM Course fulfills part of the Liberal Arts General Education Requirement for Quantitative Methods
SS Course fulfills part of the Liberal Arts General Education Requirement for Social Sciences
XLW Course fulfills part of the Liberal Arts Exit Requirement for Literature and Writing
XMW Course fulfills part of the Liberal Arts Exit Requirement for Major Works and Major Issues

The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.

Alphabetical Listing of Departments and Programs

Course descriptions are listed by college under the following department and program headings:

Department/Program College
Accounting Business Administration
Administration/Supervision Education
Adult Education Education
Africana Studies Arts and Sciences
Air Force ROTC University-wide Courses
American Studies Arts and Sciences
Ancient Studies (Religious Studies) Arts and Sciences
Anthropology Arts and Sciences
Arabic (Language) University-wide Courses
Army ROTC Fine Arts
Art Fine Arts
Art Education Fine Arts

Astronomy Arts and Sciences
Bachelor of Independent Studies Arts and Sciences
Basic and Interdisciplinary Engineering Education
Biology Engineering
Business and Office Education Arts and Sciences
Chemistry Arts and Sciences
Chemical Engineering Arts and Sciences
Chinese (Language) Education
Civil and Environmental Engineering Arts and Sciences
Classics Arts and Sciences
Common Body of Knowledge Business Administration
Communication Arts and Sciences
Communication Sciences and Disorders Arts and Sciences
Community Experience Learning Program Arts and Sciences
Computers in Education Engineering
Computer Science and Engineering University-wide Courses
Computer Service Courses Arts and Sciences
Cooperative Education Fine Arts
Criminology Business Administration
Dance Engineering
Early Childhood Education Engineering
Economics Education
Electrical Engineering Education
Elementary Education Arts and Sciences
English Education Education
Environmental Science & Policy Arts and Sciences
Finance Business Administration
Fine Arts Interdisciplinary Fine Arts
Foreign Language Education Business Administration
French (Language) Arts and Sciences
General Business Administration Business Administration
General Foreign Languages Arts and Sciences
Geography Arts and Sciences
Geology Arts and Sciences
Gerontology Arts and Sciences
German (Language) Arts and Sciences
Government & International Affairs Arts and Sciences
Greek (Classics) Arts and Sciences
Hebrew (Language) Arts and Sciences
Higher Education Education
History Arts and Sciences
Honors Program University-wide Courses
Humanities Arts and Sciences
Industrial Services Arts and Sciences
Industrial and Management Systems Engineering
Industrial/Technical Education Education
Information Systems & Decision Sciences Business Administration
Interdisciplinary Studies Arts and Sciences
International Studies Arts and Sciences
Italian (Language) Arts and Sciences
Japanese (Language) Arts and Sciences
Language Arts and Sciences
Latin (Classics) Arts and Sciences
Liberal Studies Arts and Sciences
Library & Information Science Arts and Sciences
Linguistics Arts and Sciences
Management Arts and Sciences
Marine Science Arts and Sciences
Marketing Arts and Sciences
Mass Communications Arts and Sciences
Mathematics Arts and Sciences
Mathematics Education Education
Measurement and Research Education
Mechanical Engineering Engineering

USF
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### Cross-Listing of Departments and Programs

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SPN Spanish (Language)
SPS Psychological & Social Foundations
SPT Spanish (Language), Women's Studies
SPW Spanish (Language)
SSE Elementary Education, Social Science Education
STA Mathematics, Interdisciplinary Social Sciences
SUR Civil & Environmental Engineering
SYA Sociology
SYD Sociology, Women's Studies
SYG Sociology
SYO Sociology
SYP Sociology
TAX Accounting
THE Theatre
TPA Theatre
TPP Theatre
TSL Linguistics
TTE Civil & Environmental Engineering
URP Geography, Political Science
VIC Mass Communications
WIT History, International Studies, Women's Studies
YOR Yoruba (Language)
ZOO Biology

**COURSELEVELDEFINITION**

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<th>Lower</th>
<th>0000-1999 Freshman Level</th>
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<tr>
<td>Graduate</td>
<td>5000-5999 Senior/Graduate Level</td>
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<tr>
<td>Level</td>
<td>6000-Up Graduate Level</td>
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</table>

**FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM**

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This common numbering system is used by all public postsecondary institutions in Florida and by two participating private institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and assigns the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have meaning in the SCNS. The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "course equivalency profiles."

**General Rule for Course Equivalencies:** Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between the participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

- **Lower** 0000-1999 Freshman Level
- **Level** 2000-2999 Sophomore Level
- **Upper** 3000-3999 Junior Level
- **Level** 4000-4999 Senior Level
- **Graduate** 5000-5999 Senior/Graduate Level
- **Level** 6000-Up Graduate Level

**GENERAL COURSE INFORMATION**

- **COURSE INFORMATION**
- **COURSELEVELDEFINITION**
- **FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM**
- **GENERAL COURSE INFORMATION**

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the same prefix and last three digits at both institutions. For example, SYG 1010 is offered at a community college and at the state university as SYG 101. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 1010 at the state university if the student transfers.

Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

Sometimes, as in Chemistry, a sequence of one or more courses must be completed at the same institution in order for the courses to be transferable to another institution, even if the course prefix and numbers are the same. This information is contained in the individual SCNS course equivalency profiles for each course in the sequence.

**Course Prefix:** The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

**Authority for Acceptance of Equivalent Courses:** State Board of Education Rule 6A-10.024(17), Florida Administrative Code, reads:

> When a student transfers among institutions that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy requirements in these institutions on the same basis as native students.

**Exceptions to the General Rule for Equivalency:** The following courses are exceptions to the general rule for course equivalencies and may not be transferable. Transferability is at the discretion of the receiving institution:

- **A. Courses in the _900-_999 series (e.g., ART 2905)**
- **B. Internships, practica, clinical experiences, and study abroad courses**
- **C. Performance or studio courses in Art, Dance, Theater, and Music**
- **D. Skills courses in Criminal Justice**
- **E. Graduate courses**

College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable. Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to Office of the Dean, Undergraduate Studies, USF, SVC 2002, 4202 East Fowler Avenue, Tampa, FL 33620-6920, or the Florida Department of Education, Office of Postsecondary Education Coordination, 1101 Florida Education Center, Tallahassee, FL 32399-0400. Special reports and technical information may be requested by calling telephone number (850)488-6402 or Suncom 278-6402.
Administration of State Universities

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Neurology
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Pathology
Pediatrics
Pharmacology and Therapeutics
Physiology
Psychiatry and Behavioral Medicine
Radiology
Surgery

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Associate Dean
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Associate Vice Provost
Assistant Provost
Assistant Vice Provost
Assistant Vice Provost

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Vice Provost
Vice Provost for Research
Associate Vice Provost
Associate Vice Provost
Assistant Provost
Assistant Vice Provost
Assistant Vice Provost

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Music
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Community Music
JACQUELINE FECHTER
Conferences and Institutes
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MICHAEL CURTIS
Distance Learning Network Services
ANDY BRYAN
Distance Learning Production Services
CLAUDIA JARAMILLO
Distance Learning Student Support
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#### UNIVERSITY OF SOUTH FLORIDA - 1998/99 UNDERGRADUATE CATALOG

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<tr>
<td>Director, Public Affairs</td>
<td>SANDRA KRAWETZ</td>
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<tr>
<td>Director, Records and Registration</td>
<td>NANCY E. FERRARO</td>
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<tr>
<td>Director, Student Affairs</td>
<td>TBA</td>
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<tr>
<td><strong>New College of USF</strong></td>
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<tr>
<td>Dean and Warden (Interim)</td>
<td>DOUGLAS C. LANGSTON</td>
</tr>
<tr>
<td>Director, Special Project Development</td>
<td>JAMES W. FEENEY</td>
</tr>
<tr>
<td>Director, New College Admissions</td>
<td>KATHLEEN M. KILLION</td>
</tr>
<tr>
<td><strong>Chairpersons:</strong></td>
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<tr>
<td>Humanities</td>
<td>STEPHEN T. MILES</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>LEODEMSKI</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>GORDON B. BAUER</td>
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<tr>
<td><strong>USF at St. Petersburg</strong></td>
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<tr>
<td>Dean and Executive Officer</td>
<td>H. WILLIAM HELLER</td>
</tr>
<tr>
<td>Associate Dean, Academic Affairs</td>
<td>WINSTON T. BRIDGES, JR.</td>
</tr>
<tr>
<td>Director, Administration &amp; Finance</td>
<td>HERMAN J. BRAMES</td>
</tr>
<tr>
<td>Acting Director, Advancement</td>
<td>CAROL RUSSELL</td>
</tr>
<tr>
<td>Director, Poynter Library</td>
<td>F. LANDON GREAVES</td>
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<tr>
<td>Director, Student Affairs</td>
<td>STEPHEN H. RITCH</td>
</tr>
<tr>
<td>Coordinator, Public Relations</td>
<td>DEBORAH KURELIK</td>
</tr>
<tr>
<td>Chairperson, Marine Science</td>
<td>PETER BETZER</td>
</tr>
<tr>
<td><strong>USF at Lakeland</strong></td>
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<tr>
<td>Campus Dean, and Executive Officer</td>
<td>YVONNE L. RALSTON</td>
</tr>
<tr>
<td>Assistant Dean, Academic Services</td>
<td>TBA</td>
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<tr>
<td>Director, Business, Finance, and Auxiliary Services</td>
<td>ANNE PHILLIPS</td>
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<tr>
<td>Registrar</td>
<td>WILLETTE ROACH</td>
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<td><strong>ADMINISTRATIVE SERVICES</strong></td>
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<tr>
<td>Vice President</td>
<td>ALBERT C. HARTLEY</td>
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<tr>
<td>Associate Vice President</td>
<td>RICKARD C. FENDER</td>
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<tr>
<td>Director, Auxiliary Services</td>
<td>JEFFREY A. MACK</td>
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<tr>
<td>Director, Environmental Health &amp; Safety</td>
<td>TERRY DOWDY</td>
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<tr>
<td>Director, Facilities Planning &amp; Construction</td>
<td>STEVEN W. GIFT</td>
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<tr>
<td>Director, Physical Plant</td>
<td>ADRIAN CUARTA</td>
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<tr>
<td>Director, Public Safety</td>
<td>PAUL A. URAVICH</td>
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<tr>
<td>Director, Purchasing &amp; Financial Services</td>
<td>ERIC L. WALDEN</td>
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<tr>
<td>President, Sun Dome, Inc.</td>
<td>MICHAEL LAPAN</td>
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<tr>
<td><strong>BUDGETS, HUMAN RESOURCES AND INFORMATION TECHNOLOGY</strong></td>
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<tr>
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<td>LAUREY T. STRYKER</td>
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<tr>
<td>Associate Vice President, Equal Opportunity Affairs</td>
<td>EDOUARD L. PIOU</td>
</tr>
<tr>
<td>Sr. Director, Organization Development &amp; Training</td>
<td>CLAIRE S. ROBINSON</td>
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<td>Director, Central Florida Regional Data Center</td>
<td>JOHN J. JACKSON</td>
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<tr>
<td>Director, Human Resources</td>
<td>TRUDIE F. GREKER</td>
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<td>Director, Information Technologies</td>
<td>GEORGE W. ELLIS</td>
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<tr>
<td>Director, Institutional Research &amp; Planning</td>
<td>JON W. BLADES</td>
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<tr>
<td>Director, Organization Development &amp; Training</td>
<td>SANDRA M. COOPER</td>
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<tr>
<td>Director, University Budgets</td>
<td>PAULA V. VARNE P. FUSSELL</td>
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<tr>
<td>Director, Victims’ Advocacy</td>
<td>MARY S. REID</td>
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<tr>
<td><strong>RESEARCH</strong></td>
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<tr>
<td>Vice President</td>
<td>GEORGE R. NEWKOME</td>
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<td>KENNETH G. PRESTON</td>
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<tr>
<td>Executive Assistant, Administration</td>
<td>RHONDA HENDRIX</td>
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<td>President, Research Foundation</td>
<td>GEORGE R. NEWKOME</td>
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<td>Executive Director, Research Foundation</td>
<td>KENNETH G. PRESTON</td>
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<tr>
<td>Director, Comparative Biomedicine</td>
<td>ROBERT ENGELMAN</td>
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<td>Director, Compliance Services</td>
<td>RICHARD WALKER</td>
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<td>Director, Patents &amp; Licensing</td>
<td>KENNETH G. PRESTON</td>
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<tr>
<td>Director, Pharmaceutical Studies (Acting)</td>
<td>RICHARD WALKER</td>
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<td>Director, Sponsored Programs</td>
<td>PRISCILLA POPE</td>
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<td><strong>STUDENT AFFAIRS</strong></td>
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<td>HAROLD L. NIXON</td>
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<td>Executive Assistant, Administration</td>
<td>ALICE MURRAY</td>
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<td>Executive Assistant, Finance</td>
<td>LUZ AREILA</td>
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<tr>
<td>Associate Vice President for Student Life &amp; Wellness</td>
<td>WILMA J. HENRY</td>
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<tr>
<td>Associate Vice President for Enrollment Planning &amp; Management</td>
<td>BRUCE A. BURSACK</td>
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<td>Assistant Vice President for Academic Support &amp; Achievement</td>
<td>THELMA D. BENTON</td>
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<td>ANGELA DeBOSE</td>
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<td>Associate Dean, Judicial Services</td>
<td>JOHN HOLLOWAY</td>
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<td>Associate Dean, Student Relations</td>
<td>SYLVIA SALTER</td>
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<td>Director, Academic Advising</td>
<td>MARK RUBINSTEIN</td>
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<td>Director, Admissions</td>
<td>MARSHA LOGAN</td>
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<td>Director, Adult &amp; Transfer Student Services</td>
<td>ANDREW HONKER</td>
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<td>Director, Campus Recreation</td>
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<td>MARIA ANDERSON</td>
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<td>REBA GARTH</td>
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<td>Director, Student Support Services</td>
<td>MEREDITH NICKLES</td>
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<td><strong>UNIVERSITY ADVANCEMENT</strong></td>
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<tr>
<td>Vice President</td>
<td>KATHY L. STAFFORD</td>
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<td>JOHN SCOTT</td>
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<td>Directors:</td>
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<tr>
<td>African American Community Relations</td>
<td>PATRICIA SCOTT</td>
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<tr>
<td>Department</td>
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<td>Annual Fund</td>
<td>LYNN SHIELDS</td>
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<td>Campaign Coordinator</td>
<td>KASEY KELLEY</td>
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<td>Corporate &amp; Foundation Relations</td>
<td>RON SHERMAN</td>
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<td>Latin American Community Relations</td>
<td>DONNA PARRINO</td>
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<td>Marketing</td>
<td>DANIEL CASSEDAY</td>
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<td>Media Relations</td>
<td>TODD SIMMONS</td>
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</table>
All members of the University of South Florida faculty are listed below in alphabetical order. The listing includes name, current rank and field, first year of continuous appointment to any position in the institution, degrees, and institution and year of terminal degree. (A semicolon between degrees indicates different institutions.)

"Faculty"
DESAULETS, PEGGY J., Visiting Research Associate (Dean’s Office) St. Petersburg Campus, 1996

D.B., M.A., Ph.D., University of Pennsylvania, 1992

DOSAL, PAUL J., Assistant Professor (Psychology), 1995

D.R., Tulane University, 1987

DOPKIN, CRAIG A., Assistant Professor (Physiology & Biophysics), 1997

D.S., M.S., University of Chicago, 1983

DOWNS, JOHN A., Clinical Professor (Obstetrics), 1996

DRAKE, JANET G., Visiting Professor (Psychology), 1996

D.B., M.A., Ph.D., University of South Carolina, 1979

DRAKE, JEFFERY L., Assistant Professor (Psychology), 1997

D.B., M.A., Ph.D., University of Illinois, 1994

DRESCHER, JERALD, Counselor-Advisor and Instructor (Academic Advising) St. Petersburg Campus, 1994

D.B., M.A., Ph.D., University of Illinois, 1994
HARRIS, DEBORAH M., Research Assistant Professor (Special Education), 1969

HARRISON, MARY J., Assistant Professor (Family Health), 1995

HARRISON, S.; M.S., University of North Carolina, 1991

HARRISON, WILLARD S., Professor - Associate Chairperson (Internal Medicine), 1986

HARRISON, W.; M.D., New York University, Bellevue College of Medicine, 1957

HARRISON, ELIZABETH A., Research Associate In (Dean’s Office), 1989

HARRISON, M.; B.A., Ph.D., University of South Florida, 1991

HARRISON, MARTHA M., Associate Professor (Childhood Education), 1995

HARRIS, B.; M.S., University of Memphis, 1990

HART, DEBORAH S., Associate Professor (Dean’s Office), 1996

HARWOOD, BENEDICT, T., Associate In (Law & Mental Health), 1988

HASS, B.; M.A.; Ph.D.; J.D., State University of New York, 1984

HASSELL, JOHN R., Professor (Biochemistry), 1997

D. University of Connecticut, 1971

HASSIOUTIS, SOPHIA, Assistant Professor (Civil Engineering & Mechanics), 1993

HASSOLD, CRIS, Professor (Humanities), New College, 1975

H.B.A.; M.A., Ph.D., Florida State University, 1972

HATCHEER, JOHN, Professor- Chairperson (History), 1995

HAWKINS, ANNIE L., Associate Professor (Music Arts), 1969

H.B.A.; M.A., University of South Florida, 1970

HAYDEN, WILLIAM P., Associate Professor (Music), 1989

B.M., M.M., The Juilliard School of Music, 1976

Hazen, William A., Lecturer (Law & Mental Health), 1997

H.S., University of Florida, 1973

HECHICHE, ABDELWAHAB, Professor (Government & International Affairs), 1970

M.A., Docteur en Etudes Orientales, Sorbonne, 1966

HEFFLIN, BENA R., Assistant Professor (Childhood Education), 1996

B.S., M.Ed., E.D.U., City of Pittsburgh, 1990

HEGLAR, CHARLES L., Instructor (English), 1995

B.A.; M.A., Ph.D., Yale University, 1975

HEIDE, KATHLEEN M., Professor (Criminology), 1981

B.A.; M.A., Ph.D., State University of New York, Albany, 1981

HEILOS, LAWRENCE J., JR., University Librarian (University Libraries), 1974

M.S.; M.L.S.; M.A., University of South Carolina, 1978

HEIM, WILLIAM J., Associate Professor (English), 1970

B.A.; M.A., Indiana University, 1974

HIBNER, JOHN J., Visiting Associate in (Radiology) 1996

B.S.; M.S., University of South Florida, 1976

HELAL, MOHAMED A., Assistant Professor (Surgery), 1991

M.S.; M.S., F.R.C.S. (M.D.), Royal College of Surgeons, 1982

HELLEDER, J., Professor (Chapin Music), 1968

M.Mus.; Ph.D., University of Iowa, 1962

HELLEDER, RICHARD, Assistant Professor (Surgery), 1989

B.S.; M.D., University of South Florida, 1989

HELF, ROBERT E., Professor (Music), 1980

HELTON, SONIA D., Professor (Childhood Education), St. Petersburg Campus, 1997

B.A.; M.A., Ph.D., University of Minnesota, 1976

HELTON, WENDY, Program Director (Adult and Vocational Education), 1990

B.S.; M.A., Institute of Family & Consumer Sciences, 1990

HENCKELL, KARSTEN, Associate Professor (Mathematics), New College, 1986

B.A.; M.A., University of California at Berkeley, 1977

HENCHINSON, J., Assistant Professor-Coordinator (Suncoast Gerontology Center), 1981

B.A.; M.S.; Ph.D., University of Florida, 1979

HENDRICKS, PATRICIA A., Assistant in Research (Center for Urban Transportation & Research), 1989

B.A., University of South Florida, 1979

HENDRICKS, SARA J., Research Assistant in (Center for Urban Transportation & Research), 1992

B.A., University of South Florida, 1979

HESKETH, JOHN S., Professor (English), 1969

B.A., A.B., University of South Florida, 1984

HEMMING, JOHN, Professor (Environmental & Occupational Health), 1989

B.S., D.P.H., M.S., Sc., University of Pittsburgh, 1974

HAMILTON, ROSA M., Coordinator (Academic Support & Achievement), 1973

B.A., University of South Florida, 1984

HANCOCK, TINA U., Associate Professor (Social Work), 1982

B.A.; M.S.W., University of Alabama, 1981

HANLEY, PAMELA J., Associate Professor (College of Education), 1982

M.Ed.; Ph.D., University of Florida, 1976

HANNING, ROBERT C., Lecturer (Instructional Research Art/Graphic), 1991

B.S., University of Florida, 1978

HANSEN, ROY A., Associate Professor (Sociology), 1969

B.A., Florida State University, 1967

HANSON, ARIDIS, Department Head-Assistant University Librarian (University Libraries, FMHI), 1991

B.A., S.U., M.S., University of South Florida, 1990

HAQ, MAHMUDUL, Research Associate (Internal Medicine), 1997

M.D., McGill University, 1962

HARRISON, RAYMOND D., Professor (Environmental and Occupational Health), 1995

B.S.; M.A., University of South Florida, 1995

HAROLD, JENNIFER A., Visiting Assistant Research In (Center for Urban Transportation Research), 1989

B.S.; M.A., University of South Florida, 1995

HAROLD, KAREN M., Faculty Administrator (McNair Scholar Program), 1997

B.S.; M.A., University of South Florida, 1995

HARGIS, EDYTH N., Instructor (Management), 1980

B.A.; M.S., University of South Florida, 1989

HARLEY, HEIDI E., Assistant Professor (Psychology), New College, 1994

B.A.; M.A., Ph.D., University of Hawaii, 1993

HARMON, CARY L., Professor (BIS-SUS Faculty), 1992

B.A., Indiana University, 1966

HARMON, JULIANNE P., Assistant Professor (Chemistry), 1993

B.A., M.S., Ph.D., University of Rochester, 1995

HARMON, JULIANNE P., Instructor (Internal Medicine), 1994

A.B.; M.A.T.; Ph.D., Florida State University, 1981

HARREIT, CAROL S., Faculty Assistant (Distance & Tech-Mediated), 1982

B.A.; M.A., University of South Florida, 1982

HARRIES, PETER J., Assistant Professor (Geology), 1992

B.S.; Ph.D. University of Colorado, 1993

HARRIS, B.; M.A., Ph.D., University of Florida, 1976

HARRIS, L.; M.S., University of North Carolina, 1981

HARRIS, WILLIAM S., Professor - Assistant Chairperson (Internal Medicine), 1986

B.A., University of South Florida, 1982

HARRIS, WILLIAM S., Professor - Chairperson (Internal Medicine), 1986
MADRIGAL, LORENA, Associate Professor (Anthropology), 1988

M.B.S.; M.A.; Ph.D., University of Kansas, 1988

MARSH, BRUCE E., Professor (Visual Arts), 1969

B.A.; M.A.; California State University, 1965

MARSH, JOHN W., Research Associate (Architecture), 1993

B.A.; M.A., University of South Florida, 1993

MARTIN, DEAN F., Distinguished Professor (Chemistry), 1996

B.A.; Ph.D., Pennsylvania State University, 1958

MARTIN, JAMES E., Instructor (Engineering-Information Systems), 1995

B.A.; August College, 1958

MARTIN, JAMES R., Professor (Accounting), 1982

B.S.; M.S., University of Alabama, 1976, C.M.A.

MARTIN, PHILIP A., Professor (Law & Mental Health), 1990

B.A.; M.A., Ph.D., University of Wisconsin, Madison, 1980

MASON, FRANK T., Assistant Professor (English), 1969

B.A.; M.A., Ph.D., Michigan State University, 1974

MASON, THOMAS J. Professor (Epidemiology and Biostatistics), 1993

B.A.; M.S., Ph.D., University of Georgia, 1973

MASON, OLIVER T., Associate Professor (Accounting & Family Studies), 1989

B.A.; Ph.D., University of Tennessee, 1982

MATAR, FADI A., Assistant Professor (Internal Medicine), 1994

B.S.; M.D., American University of Beirut, 1987

MATHENY, ARTHUR R., Assistant In (Academic Computing), 1993

B.S.; M.S., University of South Florida, 1993

MATHEWSS, KATHLEEN A., Lecturer (Law & Mental Health), 1991

B.A., M.A., University of Hawaii, 1985

MAULHARD, ROSEMARY G., Research Assistant in (Center for Urban Transportation), 1992

B.A.; M.P.A.; M.B.A, Boston University, 1984

MATOS, ERIC E., Assistant In (Accounting), 1993

B.A., M.A., University of Maine, 1982

MAURER, PETER M., Associate Professor (Center for Micro Electronics), 1987

B.A.; M.S., Ph.D., Iowa State University, 1982

MAYER, AUGUST J., Professor (Special Education), 1981

B.S.; M.S., Ed.D., Indiana University, 1968

MAYER, GEORGE H., Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MAYER, JR., JAMES C., Assistant Professor (Obstetrics), 1992

B.S.; M.S., M.D., Tulane University, 1968

MAYFIELD, BROWN, LORRAINE P., Visiting Assistant Professor (Dean's Office/Sociology), 1995

B.S.; M.S.; Ph. D, City University of New York, 1988

MC ALISTER, LINDA L. Professor (Women's Studies-Institute for At Risk Infants), 1982

B.A.; Ph.D. Cornell University, 1968

MC CORMACK, ROBERT M., Professor (Music) 1974

A.A.; B.A., Los Angeles State University, 1968

MC COSKEY, MELANIE, Assistant Professor (Accounting) 1996

B.A.; M.B.A., University of Georgia, 1996

MC COY, CHERYL D., Associate University Librarian (University Libraries), 1991

B.A.; M.A.; Ph.D., University of South Florida, 1990

MC DISLER, RICHARD, Associate Professor (Biology), 1978

B.S.; M.S., Ph.D., Florida State University, 1976

MC CRIGHT, PAUL, Assistant Professor (Industrial & Management Systems Engineering), 1992

B.S.; M.S., Ph.D., Stanford University, 1987

MC DERMOTT, ROBERT J., Chairperson and Professor (Community & Family Health), 1986

B.S.; M.S., Ph.D., University of Wisconsin, Madison, 1981

MC DIAMOND, JOHN F., Associate Professor (Humanities), New College, 1983

B.A.; M.S., University of Southern California, 1983

MC DONALD, PATRICK T., Assistant Professor (Natural Science), New College, 1995

B.S.; M.S.; Ph.D., Massachusetts Institute of Technology

MC EVOY, CATHY L., Professor (Aging and Mental Health), 1983

B.A.; M.A.; Ph.D., University of South Florida, 1982

MC ESSEX, LINDA, Associate Professor (Psychology & Society) 1997

B.A.; M.S., University of Georgia, 1996

MC GARVEY, DIANE, Professor (Psychology) 1990

B.S.; M.A., University of Cincinnati, 1990

MC KEOWN, PETER P., Associate Professor (Surgery), 1989

B.S.; M.D., University of Queensand, 1975

MC LAUGHLIN, LARRY W., Faculty Administrator (Distance & Technology-Mediated Learning) 1996

B.S.; M.P.H, Emory University, 1996

MC THOMAS, BAKER E., Associate Professor (Visual Arts), 1978

B.A.; M.F.A., Indiana University, 1978

MC TAYLOR, KATHLEEN, Associate Professor (Humanities), 1975

B.S.; M.A., University of Kentucky, 1975

MC TAYLOR, KATHLEEN A., Lecturer (Law & Mental Health), 1991

B.A., M.A., University of Hawaii, 1985

MC TAYLOR, MARY K., Assistant Professor (Law & Mental Health), 1992

B.A., M.A., University of South Florida, 1990

MC TAYLOR, MARY S., Associate Professor (Law & Mental Health), 1991

B.A., M.A., University of South Florida, 1990

MC TAYLOR, ROBERT A., Associate Professor (Law & Mental Health), 1990

B.A., M.A., University of South Florida, 1990

MC TAYLOR, STEPHEN W., Associate Professor (Law & Mental Health), 1990

B.A., M.A., University of South Florida, 1990

MC TAYLOR, WALTER L., Assistant Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM H., Associate Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM M., Assistant Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM P., Associate Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM R., Assistant Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM T., Associate Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM T., Assistant Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM W., Assistant Professor (History), Sarasota Campus, 1969

B.A.; M.A., University of Minnesota, 1948

MC TAYLOR, WILLIAM W., Associate Professor (History), Sarasota Campus, 1969

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UNIVERSITY OF SOUTH FLORIDA - 1998/99 UNDERGRADUATE CATALOG

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### A
- Academic Advising 35
- Academic Amnesty 41
- Academic Computing 60
- Academic Dishonesty & Disruption of Academic Process 42
- Academic Dismissal 41
- Academic Major 50
- Academic Minor 51
- Academic Probation & Dismissal 41
- Academic Programs & Services 55
- Academic Progress 41
- Academic Progress Policy, College of Fine Arts 213
- Academic Record 41
- Academic Regulations 35
- Academic Regulations Committee (ARC) 42
- Academic Residence 50
- Academic Scholarships 23
- Academic Services and Support 57
- Academic Student Organizations 31
- Academic Support & Achievement 24
- Accelerated Progress 18
- Accounting 160
- Accounting/Law 164
- Adds 36
- Administrative Holds 41
- Admission into the State University System 19
- Admission Policies 13
- Admission Requirements, Arts and Sciences 63
- Business Administration 158
- Education 170
- Engineering 189
- Fine Arts 212
- Nursing 238
- Admission to a College 41
- Admissions 25
- Adult & Vocational Education 171,180
- Adult and Transfer Student Services (ATSS) 25
- Advanced Placement Credit Program 55
- Advising in the College of Fine Arts 212
- Aerospace Studies 243
- African Studies 71,109
- Air Force ROTC 243
- American Studies 89,90
- Anthropology 72,110
- Application Fee 20
- Application for Graduation 53
- Applying for Admission 13
- Arabic 134
- Architecture 246
- Army & Air Force ROTC for Engineering Students 203
- Army Reserve Officers Training Corps (ROTC) 244
- Art 214,227
- Art Education 215,226
- Articulation Agreement 19
- Arts and Sciences, College of Courses 109
- Faculty 107
- Associate of Arts 53
- Astronomy Courses 112
- Auditing 36
- Availability of Courses 35

### B
- B.A. Degree for Early Admission Students 71
- B.A. Degree for Medical and Dental Students 53
- B.A. Degree Program for Secondary School Teachers 71
- Baccalaureate Degree for Students Enrolled in or Graduated from 5-year Master's Program 52
- Baccalaureate Degree University Requirements 49
- Bachelor of Independent Studies 21,55,73,113
- Basic & Interdisciplinary Engineering 203
- Biology 74,113
- Business Administration, College of Admission to the College Courses 158 164
- Faculty 164
- General Requirements for International Programs 159 162
- Business & Office Education 172,180
- Certificate in Biomedical Engineering 201
- Certificate in International Business 162
- Certificate in Latin American and Caribbean Studies 66
- Certificate in Russian Studies 68
- Certificate of Concentration 66
- Certificate of Enhancement 202
- Certificate Programs, College of Engineering 201
- CFDRS 61
- Change of Major 41
- Changing Requested Term of Entry 13
- Cheating 43
- Chemical Engineering 190,192,204
- Chemistry 76,115
- Childhood/Language Arts/Reading Education 173
- Chinese 135
- Civil and Environmental Engineering 190,193,205
- Class Standing 41
- Classics 92
- Classics Courses 116
- Clubs and Other Organizations 31
- College Level Academic Skills Test (CLAST) 37
- College Level Examination Program (CLEP) 18,55
- College of Arts and Sciences Honors Programs 65
- College of Arts and Sciences Program for Emergency Relief 63
- College of Engineering 188
- College of Fine Arts 212
- College Reach-Out Program 55
- College Regulations, College of Engineering 200
- Commencement 53
- Communication 78,117
- Communication Sciences and Disorders 78,118
- Community Experiential Learning Program (CEL) 55
- Community Music Division 59
- Computer Science and Engineering 190,195,207
- Computer Service 208
- Computer Service Courses 202
- Computers in Education Courses 180
- Computing Facilities, College of Engineering 202
- Conferences and Institutes 59
- Contemporary Art Museum 216
- Contracts and Permission Procedures, College of Fine Arts 213
- Cooperative Education (Co-op) 26
- Cancellation of Fees 21
- Candidate Resume Referral 26
- Career Advising 25
- Career Counseling Service 27
- Career Center 25
- Career/Networking Fairs 26
- CASPER 63
- Center for Academic Advising 24
- Center for African Diaspora 61
- Center for Alcohol & Substance Abuse 27
- Central Florida Regional Data Center 61
- Certificate in Asian Studies 66
INDEX

UNIVERSITY OF SOUTH FLORIDA - 1998/99 UNDERGRADUATE CATALOG

Internships 26
Italian 93, 137

J
Japanese 137
Job Search Workshops 25

L
Lakeland 10
Language Arts Education 173
Languages and Linguistics 92, 135
Late Registration Fee 21
Liberal Arts Requirements 44
Liberal Studies 92, 141
Library and Information Science 94, 141
Library System 59
Lifelong Learning 58
Limited Access Programs 14
Linguistics 93, 140
Loius de la Porte Florida Mental Health Institute 62
Lower-Level Transfer Applicants 15

M
"M" Grade 40
Mailed Payments 22
Management 162, 168
Marine Science 94, 141
Marshall Center 30
Mass Communications 94, 95, 141
Mathematics 96, 143
Mathematics Accelerated BA/MA Program 97
Mathematics Education 175, 183
McNaill Scholars Program 24
Meal Plans 22
Measurement and Research Courses 183
Mechanical Engineering 191, 199, 210
Mediation Institute 58
Medical Technology 98, 146
Medicine Undergraduate Course 246
Mental Retardation (MR Certification) 178
Microbiology 74
Minimum Requirements for Admission 14
Minor in International Business 163
Minors Program, College of Fine Arts 213
Modern Languages 93
Music 176, 218, 228
Music Education 220, 232

N
Non-Degree-Seeking Student 18
Non-Payment of Fees 21
Nursing, College of Courses 240
Nursing, College of Faculty 240

O
Off-Campus College of Education Courses 21
Off-Campus Housing 30
Office of Research 61
Omnibus 33
On-Campus Housing Facilities 30
On-Campus Interviews 26
Open University 58
Oracle 33
Orientation 14, 26
Outreach Mission 212
Outreach Program 27
Overview 9
PACE Fees 21
Payment of Accounts Due the University 22
Personal Counseling Service 27
Philosophy 99, 146
Phyllis P. Marshall Center 30
Physical Education 176, 183
Physics 99, 147
Physics, B.A./B.S. 100
Plagiarism 42
Polish 138
Political Science 87, 148
Student Organizations 32
Portuguese 138
Pre-dental Program 70
Pre-Law Plan in Political Science 88
Pre-medical Program 70
Pre-optometry Program 70
Pre-podiatry Program 70
Pre-veterinary Medicine Program 70
Professional Engineering 188
Professional Physical Education 176, 183
Professional Societies 32
Project Thrust 25
Psychological & Social Foundations of Education 177, 185
Psychology 100, 150
Public Broadcasting 61
Public Administration 89, 151

Q
Quota/Limited Access Programs 14

R
Reading and Learning Program 27
Reading Education 173, 186
Readmission (Former Students Returning) 19
Refund of Registration Fee Payment 22
Registrar 26
Registration 35
Registration Fee Liability 22
Rehabilitation Counseling 101, 152
Release of Registration Fee Liability 22
Release of Student Information 54
Religious Student Organizations 32
Religious Studies 101, 102, 152
Repeat Course Surcharge 37
Repeat Course Work 52
Residence Hall Living 29
Residency 20
Resources for Students with Disabilities 11
Resume Referral 26
Ronald E. McNair Post-Baccalaureate Scholars Program 24
Russian 94, 138

S
S/U Grade 40, 65
S/U Grading, College of Fine Arts 213
Sarasota 10
Scholars' Community 17
School of Music 176
School of Physical Education, Wellness, & Sports Studies 176
Science Education 175
Second Baccalaureate Degree (Transfer Students) 53
Second Undergraduate Major 53
Secondary Education 174
Semester System 35
Senior Citizen Tuition Waiver 18
Senior Programs 59
Service/Resource Organizations 32
Social Science Education 176, 186
Social Work 102, 154
Sociology 104, 156
Southern Technology Applications Center (STAC) 203
Spanish 94, 139
Special Academic Programs 55
Special Education 177, 187
Special Events Center 30
Special Non-Degree Program 69
Special-interest organizations 32
Specific Learning Disabilities (LD Certification) 178
Sports and recreational organizations 32
St. Petersburg 10
St. Petersburg Campus Honors Program 17, 246
INDEX

STAC 203
Staff/State Employee Waivers 21
Standards and Student Judicial Procedures 33
State University System
Correspondence Courses 56
Statement of Institutional Purpose 9
Statute of Limitations 42
Student Academic Grievance Procedures 42
Student Academic Support System (SASS) 25
Student Activities 31
Student Affairs 24
Diversity Statement 24
Student Code of Conduct 33
Student Councils 31
Student Disability Services 24
Student Employment 25
Student Government (SG) 31
Student Health Services (SHS) 27
Student Housing Contract 22
Student Information Changes 42
Student Life and Wellness 24, 27
Student Organizations 31
Student Publications 33
Student Records Policy 54
Student Support Services (SSS) 25
Student Violations Involving Alleged Academic Dishonesty 43
Student's Choice of Catalog 52

Students with Disabilities 11
Study Abroad Programs 56
Summer Enrollment Requirement 50
SunCoast Area Teacher Training Program (SCATT) 171
SUS Health Insurance Requirement for International Students 29
SUS Immunization Policy 28

T
Tampa 10
Tampa Campus Library 60
Teacher Education Program 171
Technology Education 172
Test of English as a Foreign Language (TOEFL) 15
Testing and Assessment Services 27
Theatre 222, 233
Tourism 235
Transfer Request 37
Transfer Applicants 15
Transfer Credit 16
Transfer of Credit 35
Transient Applicants 17
Transient Students 55
Tuition 20
Tuition Deferment for VA Students 21
Two Degrees (USF Students) 53

U
Undergraduate Studies 243
Undergraduate Transfer Applicants 15
University Bookstores 33
University Honors Program 17, 245
University Police 11
Upper-Level Transfer Applicants 16
Upward Bound 56
USFCard 34

V
Vehicle Registration and Fees 23
Veterans Affairs (VA) Benefits 23
Veterans Services 27
Victims' Advocacy Program 11
Vocational Rehabilitation Services 27

W
Waiver of Mandatory Summer Enrollment 49
Washington, D.C. Internship Program 57
Withdrawal 36
Women's Studies 105, 156
WUS(FM), WUSF-TV 61

Y
Yoruba 140