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 progress. 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 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 Engineering and Science) (Ph.D.) degrees. The Chemical Engineering Department also offers a sequence of courses in Chemical Engineering Science, biotechnology and biomedical engineering.

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, enzyme technology, and pharmaceutical engineering.

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 system organization, operating systems, algorithms and data structures, computer graphics, user interface, computer networks, database systems, theory of computation and artificial intelligence.
fense 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)
  - Mathematics, Chemistry and Physics
  - (Minimum)

- Basic Engineering Science (Minimum)
  - 36 Sem. Hrs.

- Department Specialization
  - 136 Sem. Hrs.

Special requirements exist for Chemical Engineering. Students selecting this field 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

Prospective Engineering majors must take six hours of Freshman English (ENC 1101, 1102) in their first two semesters.

Additional coursework in the non-technical portion of the General Education requirements is required as specified in the individual curricula printed on pages which follow. In no case will credits be allowed for courses taken on an S/U basis.

A minimum of eight credit hours of non-technical General Education courses must be of 2000-level or higher.

Student should pick at least three hours of work which will satisfy GA-10.30 (the "Gordon Rule"). It is required that non-technical studies have at least two courses (~6 hours) taken in the same subject area, at least one of which must be at the 2000-level or higher, in either Humanities/Fine Arts or Social Sciences. Students transferring from other colleges without having met ABET depth and breadth requirements must take additional Social Sciences/Humanities courses at USF to meet this requirement.

It is desirable that at least 24 hours of this coursework be taken in the first two years. Students are responsible for checking with their advisers to be sure that the specific courses they are taking meet the requirements of the Bachelor of Science in Engineering degree program. Students who transfer from a State of Florida community college with an Associate of Arts degree who have met that college's General Education Requirement will normally find that their General Education coursework satisfies the major portion - but not all - of the Social Sciences and Humanities core requirement.

Credit by Examination can be obtained for some of this coursework. CLEP General Examination credit, acceptable to the University, is accepted for the areas of English Composition, Humanities and Social Sciences. Credit for CLEP Subject Examinations and CEEB Advanced Placement Tests can be accepted when the subject covered is recognized to be equivalent to USF courses on the College of Engineering "Approved Social Sciences and Humanities Courses" list. Questions in this area should be directed to the Coordinator of Engineering Advising in the College's Advising Office.

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.)

In mathematics this 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. All students must take the math placement test.

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.

FOR 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. Degrees 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

Prospective 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 adviser.

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 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

Semester I
ENC 1101 Freshman English I 3
MAC 2281 Engineering Calculus I 3
CHM 2041 General Chem. I 3
EGN 1002 Engineering Orientation 0
*Historical Perspectives Elective 3
*Fine Arts Elective 3
Total 15

Semester II
ENC 1102 Freshman English II 3
MAC 2282 Engineering Calculus II 3
CHM 2046 General Chem. II 3
CHM 2045L Gen Chem I Lab 1
PHY 2048 General Physics I 3
PHY 2048L Gen. Physics Lab I 1
*ALAMEA Perspective Elective 3
Total 17

Summer Term
MAC 2283 Engineering Calculus III 3
EGN 3311 Statics 3
CHM 2046L Gen. Chem II Lab 1
PHY 2049 Gen. Physics II 3
PHY 2049L Gen. Physics Lab II 1
Total 10

Semester III
MAP 2302 Differential Equations 3
EGN 3373 Electrical Systems I 3
EGN 2210 Computer Tools for Engineers 3
EGN 3343 Thermodynamics I 3
EGN 3443 Statistics 3
*Social Science Elective 3
Total 18

Semester IV
EGN 4450 Intro. to Linear Systems 2
EGN 3365 Materials 3
ECH 3702 Instrument Systems I 4
ECH 3023 Intro. to Process Eng 3
*Historical Perspectives Elective 3
Total 15

Semester V
ECH 3264C Transport Processes I 3
ECH 4123C Phase & Chemical Equilibria 3
CHM 2210 Organic Chemistry I 4
CHM 2210L Organic Chemistry I Lab 2
CHM 4412 Physical Chemistry III 3
Total 15

Semester VI
ECH 4265C Transport Processes II 3
CHM 2211 Organic Chemistry II 4
ECH 4605 Strat Proc Engr 3
ENC 4931 Engineering Communications 3
MW-MI (Non-engineering) 3
Total 15

Semester VII
ECH 4323C Automatic Controls I 3
ECH 4415C Reacting Systems 3
ECH 4244L Chem. Lab II 2
MW-MI (Engineering) 3
*Chemistry Elective 3
Total 14

Semester VIII
ECH 4615C Plant Design and Opt 3
*Technical Electives 9
*Social Science Elective 3
*Approved General Education Requirements 15

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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**

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<td>MAC 2322</td>
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<td>ECH 2283</td>
<td>MAC 2323</td>
<td>MAC 2313 (3)</td>
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<td>CHM 2045L</td>
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<td>ECH 3024</td>
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<td>ECH 3025</td>
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<td>ECH 3026</td>
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**Fortran**

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<td>COP 2202 (3)</td>
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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.
Procedures for Applying to the College of Engineering

Students should complete and submit an Engineering Admissions Application to the College of Engineering Advising Office. Freshmen and Sophomores must submit copies of high school transcripts, SAT and ACT test scores to the College of Engineering, Advising Office. This is in addition to records requested by the University’s Admissions Office. Transfer applicants must furnish transcripts from previously attended institutions to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University’s Admissions Office. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL scores must be 550. Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

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 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 matrix structural analysis, timber and masonry design, structural modeling, Cement and concrete design, and corrosion of engineering materials.

As a culminating design experience, all students take a Capstone design course in their respective areas of concentration.

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

| Semester I | ENC 1101 | Freshman English I | 3 |
| Semester I | MAC 2281 | Engr. Calculus I | 3 |
| Semester I | CHM 2041 | General Chemistry I | 3 |
| Semester I | EGN 1002 | Engr. Orientation | 3 |
| Semester I | CES 1113 | Intro. Design Graphics | 3 |
| Semester I | *Social Science Elective | 3 |
| Semester II | ENC 1102 | Freshman English II | 3 |
| Semester II | MAC 2282 | Engr. Calculus II | 3 |
| Semester II | CHM 2046 | General Chemistry II | 3 |
| Semester II | CHM 2045L | Gen. Chemistry I Lab | 1 |
| Semester II | PHY 2048 | General Physics I | 3 |
| Semester II | PHY 2048L | Gen. Physics I Lab | 1 |
| Semester II | *Social Science Elective | 3 |
| Summer Term | ENG 2210 | Computer Tools for Engineers | 3 |
| Summer Term | *Social Science Elective | 3 |
| Summer Term | *Historical Perspectives Elective | 3 |
| Semester III | PHY 2049 | General Physics II | 3 |
| Semester III | PHY 2049L | Gen. Physics II Lab | 1 |
| Semester III | MAC 2283 | Engr. Calculus III | 3 |
| Semester III | EGN 3311 | Statics | 3 |
| Semester III | *Historical Perspectives Elective | 3 |
| Semester III | *Fine Arts Elective | 3 |
| Semester IV | MAP 2302 | Differ. Equations | 3 |
| Semester IV | EGN 3321 | Dynamics | 3 |
| Semester IV | EGN 3343 | Thermodynamics I | 3 |
| Semester IV | EGN 3443 | Eng. Statistics | 3 |
| Semester IV | EGN 3365 | Materials | 3 |
| Semester IV | EGN 3353 | Fluid Mechanics | 3 |
| Semester IV | EGN 3331 | Mechanics of Materials | 3 |
| Semester IV | EGN 3331L | Mechanics of Materials Lab | 1 |
| Semester IV | EGN 3373 | Intro to Electrical Systems | 3 |
| Semester IV | TTE 4004 | Transportation | 3 |
| Semester IV | *ALAMEA Perspective Elective | 3 |
| Semester VI | CES 3102 | Structures | 3 |
| Semester VI | CWR 4202 | Hydraulics | 3 |
| Semester VI | ENV 3001 | Environmental Engr. | 3 |
| Semester VI | GLY 3850 | Geology for Engineers | 3 |
| Semester VI | EGN 3613 | Engineering Economy | 3 |
| Semester VI | ENC 4931 | Engineering Communication | 3 |
| Semester VII | CES 4605 | Concepts of Steel Design | 3 |
| Semester VII | CES 4702 | Concepts of Concrete Design | 3 |
| Semester VII | CEG 4011 | Soil Mechanics | 3 |
| Semester VII | CEG 4011L | Geotech Lab | 1 |
| Semester VII | C.E. Concentration Requirement | 3 |
| Semester VII | C.E. Concentration Requirement | 3 |
| Semester VIII | CGN 3021L | C.E. Lab | 2 |
| Semester VIII | *CGN 4122C | Engr. Contracts Spec's. & Ethics (MW/MI) | 3 |
### Engineering Concentration Requirements

A student must complete a minimum of 9 hours, with at least 2 courses from one group.

#### Water Resources
- **CWR 4013** Water Resources Engineering 3
- **CWR 4103** Water Resources Engineering 3

#### Geotechnical/Transportation
- **CEG 4012** Soil Mechanics II 3
- **TTE 4005** Transportation Engineering II 3
- **CGN 4851** Cement and Concrete Design 3
- **CES 4141** Matrix Structural Analysis 3
- **ENV 4101** Air Pollution Control 3

#### Structural
- **CES 4141** Matrix Structural Analysis 3
- **CES 4650** Computer Aided Structural Design 3
- **CGN 4851** Cement and Concrete Design 3
- **EMA 4324** Corrosion of Engineering Materials 3

#### Civil Engineering Design Requirements

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

**Water Resources**
- **CWR 4821** Capstone Water Resources Design 3

**Geotechnical/Transportation**
- **CEG 4850** Capstone Geotechnical/Transportation Design 3

**Materials**
- **CES 4850** Capstone Materials Design 3

**Structural**
- **CES 4604** Capstone Structural Design 3

**Environmental Engineering Concentration Within Civil Engineering**

#### Semester I
- **ENC 1101** Freshman English I 3
- **MAC 2281** Engr. Calculus I 3
- **CHM 2041** General Chemistry I 3
- **EGS 1113** Intro. to Des. Graphics 3
- **EGN 1002** Engr. Orientation 3
- **Approved Elective** 3

#### Semester II
- **ENC 1102** Freshman English II 3
- **MAC 2282** Engr. Calculus II 3
- **CHM 2048** General Chemistry II 3
- **PHY 2048** General Physics I 3
- **PHY 2048L** General Physics I Lab 1
- **Approved Elective** 3

#### Summer Term
- **ENG 2210** Computer Tools for Engineers 3
- **Social Science Elective** 3

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### Fourth Semester (Junior Year)

#### Semester III
- **MAC 2283** Engr. Calculus III 3
- **PHY 2049** General Physics II 3
- **PHY 2049L** General Physics II Lab 1
- **EGN 3311** Statics 3
- **ENV 4400** Chem. Aspects of Environmental Engineering 3
- ***Social Science Elective** 3

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### Fifth Semester (Junior Year)

#### Semester IV
- **MAP 2302** Differ. Equations 3
- **EGN 3343** Intro. to Elect. Sys. I 3
- **EGN 3443** Engr. Statistics I 3
- **EGN 3365L** Materials Engr. I 3

#### Semester V
- **EGN 3321** Dynamics 3
- **EGN 3331** Mechanics of Materials 3
- **EGN 3351L** Mech. of Materials Lab 1
- **EGN 3353C** Basic Fluid Mechanics 3
- **ENV 3001** Environmental Engr. 3
- **ALAMEA Perspectives Elective** 3

#### Semester VI
- **CES 3102** Structures 3
- **CWR 4202** Hydraulics 3
- **ENV 4502** Environmental Unit Operation 3
- **EGN 3613** Engineering Economy 3
- **ECH 3023** Intro. to Process Engr. 3
- **ENV 4004** Env. Engr. Laboratory 1

#### Semester VII
- **CEG 4011** Soil Mechanics I 3
- **CEG 4211** Geotech. Laboratory 3
- **CES 4606** Concepts of Structural Design 3
- **ENC 4931** Engineering Communication 3
- **ENV 4552** Unit Ops. & Processes Lab 1
- **ENV 4503** Unit Processes 3
- **TTE 4004** Transportation 3

#### Semester VIII
- **CGN 4122C** Engr. Contracts Specs. & Ethics 3
- **ENV 4101** Air Pollution 3
- **ENV 4450** Capstone Design 4
- **Approved Elective** 3

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**Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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:

- **MAC 2281** Engr. Calculus I 3
- **MAC 2282** Engr. Calculus II 3
- **CHM 2041** General Chemistry I 3
- **CHM 2048** General Chemistry II 3
- **PHY 2048** General Physics I 3
- **PHY 2048L** General Physics I Lab 1
- **ENGR 3311** Statics 3
Graduates from these programs follow fruitful careers in either scientific or business application of computers, as well as in the design of computer systems. They are often involved in the systems level definition of information processing complex 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, 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 Curriculum

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<th>ENG 1002</th>
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<td>*Science Elective</td>
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<td>Freshman English I</td>
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<td>*Social Science Elective</td>
<td>ENC 1102</td>
<td>Freshman English II</td>
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<td>*Historical Perspectives Elective</td>
<td>ENC 1102</td>
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<td>Semester II</td>
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<td>*Science Elective</td>
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<td>Engineering Communications</td>
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### Math
- **Calculus**
  - USF
  - MAC 2281
  - MAC 2282
  - MAC 2283
- **Differential Equations**
  - MAP 2302

### Chemistry
- **General**
  - USF
  - CHM 2041
  - CHM 2045L
  - CHM 2046
  - CHM 2046L

### Physics
- **USF**
  - PHY 2048
  - PHY 2048L
  - PHY 2049
  - PHY 2049L

### Graphics
- **USF**
  - EGS 1113

### Fortran
- **USF**
  - EGN 2210

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.

### Procedures for Applying to the College of Engineering
Students should complete and submit an Engineering Admissions Application to the College of Engineering Advising Office. Freshmen and Sophomores must submit copies of high school transcripts, SAT and ACT test scores to the College of Engineering, Advising Office. This is in addition to records requested by the University's Admissions Office. Transfer applicants must furnish transcripts from previously attended institutions to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University's Admissions Office. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL scores must be 550. Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

### 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 program emphasizes the design and utilization of computers and has a core of engineering and basic science courses like those of other engineering programs in the college. The Computer Science program focuses on languages, systems, and computation and application. The Information Systems Track emphasizes the understanding and development of software with an emphasis on business and end-user applications.
### Semester VI

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CDA 4100</td>
<td>Computer Organization and Architecture</td>
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<tr>
<td>COT 4210</td>
<td>Intro. to Automata Theory</td>
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<tr>
<td>*MW/MI (Non-engineering)</td>
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<td>COT 4400</td>
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**Total Credits:** 16

### Semester VII

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<tr>
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<tbody>
<tr>
<td>EEL 4744</td>
<td>Microprocessor Principles &amp; Applications</td>
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<td>EEL 4743L</td>
<td>Microprocessor Lab</td>
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<tr>
<td>COP 4600</td>
<td>Operating Systems</td>
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<tr>
<td>COP 4400</td>
<td>Analysis of Algorithms</td>
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**Total Credits:** 16

### Semester VIII

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<td>CEN 4020</td>
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<tr>
<td>CIS 4250</td>
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<tr>
<td>Quantitative Elective</td>
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<tr>
<td>Computer Science Electives</td>
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</table>

**Total Credits:** 15

*Approved General Education Requirements

### Program of Study at a Florida Community/Junior College or SUS for Students Planning to Transfer to USF (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.

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.

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 2282, MAC 2283
    - C/C: MAC 2311 (3), MAC 2312 (3), MAC 2313 (3)
  - **Differential Equations**
    - USF: MAP 2302
    - C/C: MAP 2302 (3)

- **Physics**
  - USF: PHY 2048, PHY 2048L, PHY 2049, PHY 2049L
    - C/C: PHY 2048 (3), PHY 2048L (1), PHY 2049 (3), PHY 2049L (1)

- **Science Electives (6)**
  - **Fortran**
    - USF: EGN 2210
    - C/C: 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.
The College areas: course requirements.

Chemistry credit, the student must meet the university's entering freshman requirements including one year of high school courses with a minimum of 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.

Bachelor of Science in Information Systems Curriculum

Semester I

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EGN 1002 Engr. Orientation</td>
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<tr>
<td>ENC 1101 Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2233 Elementary Calculus I</td>
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</tr>
<tr>
<td>ACG 2001 Ele. Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Perspective Elective</td>
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Semester II

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ENC 1102 Freshman English II</td>
<td>3</td>
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<tr>
<td>MAC 2234 Elementary Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2053 or 2048 Physics I</td>
<td>3</td>
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<tr>
<td>PHY 2053L or 2048L Physics I Lab</td>
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<tr>
<td>ENG 3613 Engineering Economy I</td>
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Summer Term

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<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>PHY 2054 or 2049 General Physics II</td>
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<tr>
<td>PHY 2049L or 2054L Physics II Lab</td>
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<tr>
<td>EGN 2210 Computer Tools for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>*Science Elective</td>
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Semester III

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>COT 3100 Intro. to Discrete Structures</td>
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</tr>
<tr>
<td>COP 2120 COBOL Programming I</td>
<td>3</td>
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<td>ECO 2023 Economic Principles (Microeconomics)</td>
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<tr>
<td>STA 2023 Intro. to Statistics</td>
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<tr>
<td>*Social Science Elective</td>
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Semester IV

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<thead>
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<td>COP 2002 . Intro. to Computer Science</td>
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<tr>
<td>COP 2000L Intro. to Computer Science Lab</td>
<td>3</td>
</tr>
<tr>
<td>EGN 4450 Intro. to Linear Systems</td>
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</table>
**Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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
    - USF: MAC 2234
  - Statistics
    - STA 2023

- **USF**
  - PHY 2053
  - PHY 2053L
  - PHY 2054
  - PHY 2054L

- **Science Electives (6)**

- **Business Courses**
  - **USF**
    - ACG 2001
    - ECO 2013
    - ECO 2023

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.

**Procedures for Applying to the College of Engineering**

Students should complete and submit an Engineering Admissions Application to the College of Engineering Advising Office. Freshmen and Sophomores must submit copies of high school transcripts, SAT and ACT test scores to the College of Engineering, Advising Office. This is in addition to records requested by the University’s Admissions Office. Transfer applicants must furnish transcripts from previously attended institutions to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University’s Admissions Office. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL scores must be 550. Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

**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 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.

**Bachelor's Curriculum - Electrical Engineering**

**Semester I**

- ENC 1101 Freshman English I
- CHM 2041 Gen. Chem. I
- CHM 2045L Gen. Chem. Lab
- MAC 2281 Engr. Calculus I

**Semester II**

- EGN 2210 Fortran
- COP 2202 (3)

**Semester III**

- COP 2120 C/C
- EGN 2210 Fortran

**Semester IV**

- COP 2120 C/C
- EGN 2210 Fortran

**USF**

- MAC 2233
- MAC 2234

- STA 2023

- PHY 2053
- PHY 2053L
- PHY 2054
- PHY 2054L

- ACG 2001
- ECO 2013
### Semester II
- ENC 1102 Freshman English II  
- CHM 2046 Gen. Chem. II  
- PHY 2048 Gen. Phys. I  
- PHY 2048L Gen. Phys. I Lab  
- MAC 2282 Engr. Calc. II  
- *EGN 2210 Computer Tools for Engineers  

### Semester III
- PHY 2049 Gen. Phys. II  
- PHY 2049L Gen. Phys. II Lab  
- MAC 2283 Eng. Calculus III  
- EGN 3613 Engr. Economy I  
- *EGN 3311 Statics  
- **Historical Perspective Elective

### Semester IV
- MAP 2302 Differ. Equations  
- PHY 3101 Modern Physics  
- *EGN 3373 Intro. to Elec. Sys. I  
- *EGN 3443 Engr. Statistics I  
- *EGN 3343 Thermodynamics I  
- **Social Science Elective

### Summer Term
- EGN 3375 Intro. to Elec. Systems III  
- ENC 4931 Engineering Communications  
- EGN 3365L Materials Engineering

### Semester V
- EGN 4450 Intro. to Linear Systems  
- EEL 4935 Intro to Electromagnetics  
- EEL 3100 Network Analysis & Design  
- EEL 3302 Electronics I  
- *ALAMEA Perspective Elective  
- ELR 4937 Wireless Cir Sys Des Lab

### Semester VI
- EEL 4102 Linear Systems Analysis  
- EEL 4351 Semiconductor Devices  
- EEL 4705 Logic Design  
- EEL 4705L Logic Design Lab  
- EEL 4163 Computer Aided Design  
- ELR 3301L Lab I (Circuits)  
- *MV/MI (Non-engineering)

### Semester VII
- EEL 4744 Microprocessors  
- EEL 4743L Microprocessors Lab  
- ELR 3302L Lab II (Electronics)  
- EEL 4906 Intro. to Engr. Design  
- *Fine Arts Elective  
- Approved Technical Elective

### Semester VIII
- EEL 4936 Design Project  
- EGN 4831 Technology in Society (MWMI Engr.)  
- Approved Technical Elective  
- Approved Technical Elective  
- Approved Technical Elective

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**Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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  
- Differential Equations

**Chemistry**
- General  
- Physics  
- Fortran

**Program Requirements**
- 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.

**Procedures for Applying to the College of Engineering**
- Students should complete and submit an Engineering Admissions Application to the College of Engineering Advising Office. Freshmen and Sophomores must submit copies of high school transcripts, SAT and ACT test scores to the College of Engineering, Advising Office. This is in addition to records requested by the University’s Admissions Office. Transfer applicants must furnish transcripts from previously attended institutions to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University’s Admissions Office. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL scores must be 550. Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

**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 Math, 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
coursework 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, or 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**

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<thead>
<tr>
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<tbody>
<tr>
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<tr>
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<td>CHM 2041 General Chemistry I</td>
<td>3</td>
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<tr>
<td>EGN 1002 Engr. Orientation</td>
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<tr>
<td>EGS 1113 Intro. to Design Graphics</td>
<td>3</td>
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<td>PHY 2048 General Physics I</td>
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<td>MAC 2283 Engr. Calculus III</td>
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<td>EGN 3365L Materials Engineering I</td>
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<td>EGN 3311 Statics</td>
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<tbody>
<tr>
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<td>EGN 3373 Intro. to Electrical Systems I</td>
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<tr>
<td>EGN 3321 Dynamics</td>
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<td>EGN 3343 Thermodynamics I</td>
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<tbody>
<tr>
<td>ENC 4931 Engineering Communications</td>
<td>3</td>
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<tr>
<td>ENG 3613 Engineering Economy</td>
<td>3</td>
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<tr>
<td>EGN 4490 Intro. to Linear Systems</td>
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<tbody>
<tr>
<td>EIN 4312L Work Analysis</td>
<td>3</td>
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<tr>
<td>EGN 3375 Intro. to Electrical Systems III</td>
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<tr>
<td>EIN 4411L Manufacturing Processes</td>
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<tr>
<td>EIN 4933 Managerial Cost Accounting</td>
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Procedures for Applying to the College of Engineering

Students should complete and submit an Engineering Admissions Application to the College of Engineering Advising Office. Freshmen and Sophomores must submit copies of high school transcripts, SAT and ACT test scores to the College of Engineering, Advising Office. This is in addition to records requested by the University’s Admissions Office. Transfer applicants must furnish transcripts from previously attended institutions to the College of Engineering, Advising Office. This is in addition to transcripts sent to the University’s Admissions Office. Applicants whose native language is other than English must submit TOEFL scores to the College of Engineering. The minimum TOEFL scores must be 550. Credentials must be received in the Engineering Advising Office 30 days prior to the date of applicable term. Failure to comply will result in the application being denied by the College of Engineering. Credentials will be held for one year. If application is not updated within that year, credentials must be re-submitted.

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, controls, and fluid machinery. 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, machine design, construction, refrigeration, heating and air conditioning, aerospace, defense and all the process industries (foods, textiles, petrochemicals, pharmaceuticals, etc.). There are abundant career opportunities in this wide range of industries because mechanical equipment is required in every aspect of industrial production.

Bachelor's Curriculum

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<tr>
<th>Mechanical Engineering</th>
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<tbody>
<tr>
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<tr>
<td>MAC 2281 Engineering Calculus I</td>
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<tr>
<td>CHM 2041 General Chemistry I</td>
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<td>CHM 2045L Chemistry Lab I</td>
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<td>EGS 1113 Intro. to Design Graphics</td>
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<td>ENG 1002 Engineering Orientation</td>
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<tr>
<td>Semester II</td>
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<td>ENC 1102 Freshman English II</td>
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<td>MAC 2282 Engineering Calculus II</td>
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<td>PHY 2048 General Physics I</td>
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<tr>
<th>Summer Term</th>
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<tbody>
<tr>
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<tr>
<td>PHY 2049L General Physics II Lab</td>
</tr>
<tr>
<td>EGN 2210 Computer Tools for Engineers</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Semester III</th>
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<tbody>
<tr>
<td>EGN 3311 Statics</td>
</tr>
<tr>
<td>EGN 3443 Engineering Statistics</td>
</tr>
<tr>
<td>MAP 2302 Differential Equations</td>
</tr>
<tr>
<td>EGN 3343 Thermodynamics I</td>
</tr>
<tr>
<td>EGN 3373 Intro. to Electrical Systems I</td>
</tr>
</tbody>
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<tr>
<th>Semester IV</th>
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<tbody>
<tr>
<td>EGN 4450 Intro. to Linear Systems</td>
</tr>
<tr>
<td>EGN 3321 Dynamics</td>
</tr>
<tr>
<td>EML 4106 Thermal Systems and Economics</td>
</tr>
<tr>
<td>EGN 3365L Materials Engineering I</td>
</tr>
<tr>
<td>EGN 3375 Intro. Electrical Systems III</td>
</tr>
<tr>
<td>*Social Science Elective</td>
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<table>
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<tr>
<th>Semester V</th>
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</thead>
<tbody>
<tr>
<td>EGN 3433 System Dynamics</td>
</tr>
<tr>
<td>EML 4041 Computer Methods</td>
</tr>
<tr>
<td>EML 3282 Kinematics and Dynamics of Machinery</td>
</tr>
<tr>
<td>EML 3500 Mach. Anal. and Des. I</td>
</tr>
<tr>
<td>*Historical Perspectives Elective</td>
</tr>
<tr>
<td>*ALAMEA Perspectives Elective</td>
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<table>
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<tr>
<th>Semester VI</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 4501 Machine Design</td>
</tr>
<tr>
<td>EML 3701 Fluid Systems</td>
</tr>
<tr>
<td>ENC 4931 Engineering Communications</td>
</tr>
<tr>
<td>*Fine Arts Elective</td>
</tr>
<tr>
<td>MW/MI (Non-engineering)</td>
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<table>
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<tr>
<th>Semester VII</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 4142 Heat Transfer I</td>
</tr>
<tr>
<td>EML 3303 Mechanical Engineering Lab I</td>
</tr>
<tr>
<td>EML 4551 Capstone Design (MW/MI)</td>
</tr>
<tr>
<td>Approved Technical Elective</td>
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<td>Approved Technical Elective</td>
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<table>
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<tr>
<th>Semester VIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 4302 Mechanical Engineering Lab II</td>
</tr>
<tr>
<td>Controls Elective</td>
</tr>
<tr>
<td>Approved Design Elective</td>
</tr>
<tr>
<td>Approved Technical Elective</td>
</tr>
<tr>
<td>Approved Technical Elective</td>
</tr>
<tr>
<td>*Approved General Education Requirements</td>
</tr>
</tbody>
</table>

Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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:

**Available Courses:**
## 2.02 COLLEGE OF ENGINEERING

**UNIVERSITY OF SOUTH FLORIDA - 1997/98 UNDERGRADUATE CATALOG**

### Math

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus USF</td>
<td>C/C</td>
</tr>
<tr>
<td>MAC 2281</td>
<td>MAC 2311 (3)</td>
</tr>
<tr>
<td>MAC 2282</td>
<td>MAC 2312 (3)</td>
</tr>
<tr>
<td>MAC 2283</td>
<td>MAC 2313 (3)</td>
</tr>
<tr>
<td>Differential Equations</td>
<td>MAP 2302 (3)</td>
</tr>
</tbody>
</table>

### Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General USF</td>
<td>C/C</td>
</tr>
<tr>
<td>CHM 2041</td>
<td>CHM 1045 (3)</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>CHM 1045L (1)</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>CHM 1046 (3)</td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>CHM 1046L (1)</td>
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</tbody>
</table>

### Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Credits</th>
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</thead>
<tbody>
<tr>
<td>USF</td>
<td>C/C</td>
</tr>
<tr>
<td>PHY 2048</td>
<td>PHY 2048 (3)</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>PHY 2048L (1)</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>PHY 2049 (3)</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>PHY 2049L (1)</td>
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</tbody>
</table>

### Graphics

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USF</td>
<td>C/C</td>
</tr>
<tr>
<td>EGS 1113</td>
<td>EGS 1111 (3)</td>
</tr>
</tbody>
</table>

### Fortran

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>USF</td>
<td>C/C</td>
</tr>
<tr>
<td>EGN 2210</td>
<td>COP 2202 (3)</td>
</tr>
</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.

### 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 normally find that their General Education coursework satisfies the major portion - but not all - of the Social Science and Humanities Core Requirements.

All Engineering students must complete the USF Exit Requirements. The Literature and Writing portion can be met by completing ENC 3210 Technical Writing.

#### 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 will be 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 that is over and above 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. In no case will the minimum GPA for a category be less than 2.0. It is the student's 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 recommended 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 admission 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 of '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 Requirement courses 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 graduate courses during the fourth year and deferring the taking of 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 get 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010</td>
<td>Biology II - Cellular Processes*</td>
</tr>
<tr>
<td>BCH 3023</td>
<td>Biochemistry**</td>
</tr>
</tbody>
</table>

One of the following Organic Chemistry sequences:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2210</td>
<td>Organic Chemistry I*</td>
</tr>
<tr>
<td>CHM 2211</td>
<td>Organic Chemistry II*</td>
</tr>
<tr>
<td>CHM 2220</td>
<td>Organic Chemistry***</td>
</tr>
</tbody>
</table>

Other “human sciences” (6 hrs. min.):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PSY 3044</td>
<td>Experimental Psychology**</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PET 3310</td>
<td>Kinesiology</td>
</tr>
<tr>
<td>PET 3351</td>
<td>Exercise Physiology I</td>
</tr>
<tr>
<td>EXP 4104</td>
<td>Sensory Processes</td>
</tr>
<tr>
<td>PSB 4013C</td>
<td>Neuropsychology</td>
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</tbody>
</table>

(or approved substitute)

Engineering

(9 hrs. min.****)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EEL 4935</td>
<td>Special Electrical Topics</td>
</tr>
<tr>
<td>ECH 5745</td>
<td>Introduction to Biomedical Engineering</td>
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One or more of the following (to achieve 9 hrs. min. in area):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIN 4313L</td>
<td>Human Factors</td>
</tr>
<tr>
<td>EIN 5245</td>
<td>Work Physiology &amp; Biomechanics</td>
</tr>
<tr>
<td>ECH 5747</td>
<td>Selected Topics in Chemical Engineering Biotechnology</td>
</tr>
<tr>
<td>ECH 5748</td>
<td>Selected Topics in Biomedical Engineering</td>
</tr>
</tbody>
</table>

(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 count towards the Chemical Engineering degree (students must take the full year sequence).

****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 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. Courses must be taken on a letter-grade basis and a minimum of 9 hours must be in engineering courses.
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.

Please contact the appropriate department chairperson to be accepted in the program.

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.
Computer-oriented courses are offered in two broad categories: (1) those courses which are concerned with the operation, organization and programming of computers and computer systems from the viewpoint of examining the fundamental principles involved in computer usage; and (2) those courses which are concerned with computer applications to a variety of different disciplines, by means of user-oriented languages such as PASCAL, BASIC, "C" and ADA. Students in engineering, the physical sciences, and mathematics must consult their adviser for suitable computer courses, since these courses are not acceptable to a number of degree programs.

**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 base control systems, industrial robots, a low turbulence subsonic wind tunnel, computer numerical controlled machinery, metal organic chemical vapor deposition systems, and integrated circuits 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 asynchronous 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. Two are available for undergraduate engineering students; a third smaller lab is reserved for graduate students and faculty. Another open access P.C. lab is operated in conjunction with the Technology program. 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, C, 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 facilities, 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 (RTRTC) 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 science 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, Air Force-sponsored summer training camp is scheduled between the sophomore and junior years for Air Force R.O.T.C. 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 1002 ENGINEERING ORIENTATION (3)
The role of engineering in society, characteristics of different fields of engineering, required preparation for engineering careers, techniques and approaches used by engineers in practice.
(S/U only)
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 2220 ENGINEERING GRAPHICS WITH COMPUTERS (2)
PR: EGN 2210. Fundamental concepts in engineering and computer applications. Examples chosen from various areas of engineering to illustrate design modelling and analysis with computer assistance. Some topics involve laboratory.
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 3331 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, Hook'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 3375 INTRODUCTION TO ELECTRICAL SYSTEMS III (3)
PR: EGN 3373. Continuation of EGN 3373 or EGN 3374.
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 method; use of computers in dynamic systems.
EGN 3443 ENGINEERING STATISTICS I (3)
PR: MAC 2283. An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.
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, non-ferrous alloys and their welding, 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, basic differential equations and computer analysis. Lec.
EGN 4831 TECHNOLOGY AND SOCIETY -XMW (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.

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.

ECH 4930 SPECIAL TOPICS IN CHEMICAL ENGINEERING I (1-4) PR: CC. May be repeated up to 9 credit hours.

ECH 4931 SPECIAL TOPICS IN CHEMICAL ENGINEERING II (1-4) PR: CI. May be repeated up to 9 credit hours.

ECH 5285 TRANSPORT PHENOMENA (3) PR: Senior or graduate standing in engineering. Basic descriptive equations of fluid, heat, and mass transport. Description and solution to intermediate problems, including unsteady state and multidimensional systems. Estimation of transport and convective coefficients.

ECH 5324 AUTOMATIC PROCESS CONTROL II (3) PR: ECH 4323C or CI. The course covers the root locus and frequency response methods. The techniques of rational, cascade feed forward, selective, override, and multivariable control techniques are discussed in detail. The course also shows how to utilize these techniques to design control systems. Z-transforms and discrete control including PID, Dahlin, and other control techniques.

ECH 5740 THEORY AND DESIGN OF BIOPROCESSES (4) PR: Senior standing in engineering or CI. Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems. Open to majors and non-majors with CI.

ECH 5742 PHARMACEUTICAL ENGINEERING (2) PR: Senior or graduate standing in engineering or CI. Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.

ECH 5746 INTRODUCTION TO BIOMEDICAL ENGINEERING (3) PR: Senior standing in engineering or CI. Introduction to biomedical engineering, including transport phenomena in biomedical systems, biometers, biomedical instrumentation, prosthetic devices, and clinical engineering. Open to non-engineering students with CI.

ECH 5747 SELECTED TOPICS IN CHEMICAL ENGINEERING BIOTECHNOLOGY (1-3) PR: Senior standing in engineering or CI. Selected topics in chemical engineering biotechnology, including pharmaceutical engineering, immobilized enzyme technology, food engineering, and fermentation. Open to majors and non-majors with CI. May be repeated for credit as subjects vary.

ECH 5748 SELECTED TOPICS IN BIOMEDICAL ENGINEERING (1-3) PR: CI. Selected topics in biomedical engineering, including biomedical materials, biodynamics of circulation, separation processes in biomedical systems, and artificial organ systems. May be taken by non-engineering students with CI. May be repeated for credit as subjects vary.

ECH 5780 ENVIRONMENTAL REACTING SYSTEMS (3) Application of chemical reaction engineering principles to problems in environmental engineering. Basic chemical kinetics and the modeling of batch and continuous systems. Applications will include containment fate and transport and remediation.

ECH 5820 PRODUCT DEVELOPMENT (2) Senior or graduate standing in engineering or CI. An introduction to the development of consumer products, including the history of innovation, creativity development, the product development environment, and a detailed examination of several product areas.

ECH 5824 DIRECTED RESEARCH IN BIOENGINEERING (1-3) PR: CI. Directed research in an area of biomedical engineering or engineering biotechnology. May be repeated up to 4 credit hours.
Civil and Environmental Engineering

CEG 4011 SOIL MECHANICS I (3) PR: EGN 3353C. Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.

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

CEG 4011L GEOTECHNICAL LABORATORY 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.

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

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

CES 3102 STRUCTURES I (3) PR: EGN 3331. Analysis of simple structural systems, both determinate and indeterminate. Introduction to the use of computer methods in indeterminate structures.

CES 4000 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 design and to introduce the concept of structural art.

CES 4141 MATRIX STRUCTURAL ANALYSIS (3) PR: CES 3102. Analysis of structures by use of matrix techniques and the digital computer. An introduction to finite analysis techniques.

CES 4561 COMPUTER AIDED STRUCTURAL DESIGN (3) PR: CEG 4011. Computer aided structural analysis and design using existing finite element program, static dynamic loading.

CES 4604 CAPSTONE STRUCTURAL DESIGN (3) PR: CES 4605, CES 4702. A capstone structural design experience for seniors in Civil and Environmental Engineering. Design of structures made of steel and reinforced concrete.

CES 4605 CONCEPTS OF STEEL DESIGN (3) PR: CES 3102. Introduction to steel design and AISC Manual of Steel Construction: Design of tension members; compression members; beams; beam columns; and bolted, welded, and riveted connections.

CES 4606 CONCEPTS OF STRUCTURAL DESIGN (3) PR: CES 3102. EGN 3311. 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.

CES 4618 STRUCTURAL DESIGN STEEL (2) PR: CES 4605. Design of structures made of steel.

CES 4660 CAPSTONE MATERIALS DESIGN (3) PR: EGN 3365 plus one of the following courses EGN 4851, EMA 4324 or EGN 4366. A Capstone Materials design experience for seniors in Civil and Environmental Engineering. This course will provide students with a focused design experience aimed to design for durability and reliability.

CES 4702 CONCEPTS OF CONCRETE DESIGN (3) PR: CES 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.

CES 4704 STRUCTURAL DESIGN-CONCRETE (2) PR: CES 4702. Design of concrete structures.

CES 4820C TIMBER AND MASONRY DESIGN (3) PR: CES 3102, CES 4702. Fundamentals of timber design including beams, columns, connections and formwork. Introduction to masonry design including design of beams, walls, columns, and pilasters.

CES 5105C ADVANCED MECHANICS OF MATERIALS I (3) PR: EGN 3331, MAP 2302. Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beams, introduction to theories of elasticity, and bending of thin plates.

CES 5715C STRUCTURAL DYNAMICS (3) PR: CES 3102. Behavior of structural components and systems when subjected to periodic dynamic loads.

CES 5715C PRESTRESSED CONCRETE (3) PR: Cl. Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of prestress applications.

CGN 3021L CIVIL ENGINEERING LABORATORY (3) PR: CES 3102, EGN 3353, EGN 3365. A laboratory experience in departmental facilities including the subject areas of structures, materials, fluids, transportation, soils, engineering mechanics, environmental engineering, and computer assisted data acquisition.

CGN 4122 ENGINEERING CONTRACTS, SPECIFICATIONS AND ETHICS - 6A -XMW (3) Focus on engineering responsibilities in the technical aspects of preparing contracts and specifications. Objectives are to teach the student their legal and ethical responsibilities in the preparation of contracts and specifications. Make the student aware of technical problems in the preparation of specification, bid documents and contracts. Emphasis of ethics of engineer-client agreements.

CGN 4851 CEMENT AND CONCRETE DESIGN (3) PR: EGN 3365L. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.

CGN 4905 INDEPENDENT STUDY (1-5) 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 (1-4) PR: CC.

CGN 4914 SENIOR PROJECT (2-5) PR: Cl. Problem-solving experience and training for seniors in research and/or design projects. Written final reports are required.

CGN 4933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS (1-5) PR: Cl. New technical topics of interest to civil engineering students.

CGN 5933 SPECIAL TOPICS IN CIVIL ENGINEERING AND MECHANICS (1-5) PR: Cl. New technical topics of interest to civil engineering students. May be repeated up to 6 credit hours.

CWR 4103 WATER RESOURCES ENGINEERING (3) PR: CWR 4202. A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.
the design of unit operations in environmental engineering, such as agitation and mixing of liquids, filtration, leaching, gas absorption, sedimentation, and clarification, drying, and evaporation.

ENV 4503 ENVIRONMENTAL UNIT PROCESSES (3)
PR: ECH 3023, ENV 4502. The theory and design of unit processes 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 (2)
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 (1)
PR: EGN 3353, 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 5105 AIR RESOURCE MANAGEMENT (3)
PR: CI. Air pollution source impacts on ambient air quality, modeling, regulatory approaches, source control 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 5614 ENVIRONMENTAL RISK ANALYSIS (3)
PR: CI. Study of comprehensive application of risk analysis techniques for environmental control and protection purposes.

SUR 3140 ENGINEERING LAND SURVEYING (3)
Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.

TTE 4004 TRANSPORTATION ENGINEERING I (3)
PR: EGN 3321. Principles of surface transportation system development, design, and operations; administration, modal characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queueing, capacity and signalization; transportation planning and economics.

TTE 4005 TRANSPORTATION ENGINEERING II (3)
PR: TTE 4004, CR: SUR 3140. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral curves, superelevations and earthwork analysis; drainage, soils, and a rigid and flexible pavement design; right-of-way acquisition and Environmental Impacts; site layout & design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.

TTE 882 TRANSPORTATION SYSTEMS DESIGN (2)
PR: TTE 4005. Comprehensive surface transportation design 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 transportation planning; trip generation, trip distribution, mode 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, source of image degradation, image enhancement techniques, edge detection operators, and threshold selection, low-level processing algorithms for vision, image data compression.

CAP 5625 INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3)
PR: EEL 4851C. Basic concepts, tools and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, problem solving strategies, etc.
a broad overview of data processing concepts, problems and applications for students with little or no computing background. (For non-engineering majors only.)

CFS 7382 SC PASCAL PROGRAMMING (3)  
PR: CSS 2060. Structured programming with the PASCAL language. Emphasis on program structure and data manipulation.

CFS 3463 SC GPSS SIMULATION (3)  
PR: COP 2200. The development and execution of discrete event simulation models of real world systems using the GPSS language.

CFS 3464 SIMSCRIPT SIMULATION (3)  

CFS 4260 SC MINI-COMPUTER APPLICATIONS (3)  
PR: CSS 4465. Study of mini-computer system components, I/O devices, theory of computer operation.

COP 2120 SC COBOL PROGRAMMING I (3)  

COP 2211 SC COBOL PROGRAMMING II (3)  
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 (3)  
PR: CSS 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 (1-5)  
PR: CC.

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

ETI 4868 PRINCIPLES OF INDUSTRIAL OPERATIONS II (3)  
PR: CC. Application of techniques developed to the operation of an industrial firm through special projects.

Electrical Engineering

EEL 3100 NETWORK ANALYSIS AND DESIGN (3)  

EEL 3302 ELECTRONICS I (3)  
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 (3)  
PR: EEL 310. Provides further study in the analysis of linear networks and systems. Includes time and frequency domain points of view. Laplace, Fourier and superposition integrals.

EEL 4108 DISTRIBUTED NETWORKS (3)  
PR: EEL 4411, EEL 3100. Transmission lines, standing waves, impedance, waveguides.

EEL 4163 COMPUTER AIDED DESIGN AND ANALYSIS (2)  
PR: EEL 3302, EEL 4705. The emphasis is upon applications and how to use the major CAD programs as effective tools to solve a wide variety of engineering problems. The coverage includes solid state design, systems analysis, digital logic, and transfer function solutions.

EEL 4305 ELECTRONICS II (3)  
PR: EEL 3302. Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

EEL 4351C SEMICONDUCTOR DEVICES (3)  
PR: EEL 3302. An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

EEL 4511 COMMUNICATION ENGINEERING (2)  
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.
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EEL 5437 MICROWAVE ENGINEERING (3)
PR: EEL 4411, 4102, or CC. Introduction to passive and active components, devices, and circuits, including transmission lines and waveguides, employed in microwave integrated circuits and systems.

EEL 5462 ANTENNA THEORY (3)
PR: EEL 4411 or CC. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.

EEL 5572 LOCAL AREA NETWORKS AND INTERFACING (3)
PR: EEL 4512. Network components: Communication terminals, PC's telephone, etc. Basics of LAN's, Tx media topologies, access methods, and LAN characteristics. Interfacing of terminals and PC's to LAN's; NAU's and other interfacing devices; interface selection. LAN design issues, repeaters, timing circuits, gateways.

EEL 5631 DIGITAL CONTROL SYSTEMS (3)
PR: EEL 4657. Sample data and digital control processes.

EEL 5754C MICROPROCESSOR BASED DIGITAL SIGNAL PROCESSING (3)
PR: EEL 4705 or CC. Arithmetic systems, processing structures, efficient algorithms DSP hardware, TI, NEC and other DSP microprocessors; multiprocessing hardware and software. System development. Application to telecommunication and voice processing.

EEL 5935, 5936, 5937 SPECIAL ELECTRICAL TOPICS I, II, III (1-3 each)
PR: CC.

Industrial and Management Systems

EIN 4304C INTRODUCTION TO INDUSTRIAL ENGINEERING (3)
History of industrial engineering. Introduction to basic industrial processes and controls. Students research specific industries and visit local industrial plants.
PR: EGN 3613, EGN 3443; CR: AGC 3074. Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

EIN 4313C HUMAN FACTORS (3)
Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 4333 PRODUCTION CONTROL (3)
PR: ESI 4312. Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

EIN 4364C FACILITIES DESIGN I-XMW (3)
PR: EIN 4364. CAD/CIEM, complete design of a plant facility. Course to use computers and software geared toward plant design and operation. A team of students is to be responsible for the complete project.

EIN 4411 MANUFACTURING PROCESSES (3)
PR: EGN 3365. The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming integrated circuits and systems.

EIN 4601L AUTOMATION AND ROBOTICS (3)
PR: EIN 4411. Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

EIN 4933 SPECIAL TOPICS IN INDUSTRIAL ENGINEERING (1-5)
Special topics related to economic analysis, optimization, 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 5567 ENGINEERING VALUE ANALYSIS (3)
Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.

EIN 5588 TECHNOLOGICAL FORECASTING (3)
Introduction to forecasting techniques used to plan and schedule the production inventory control functions. Smoothing and decomposition time-series methods, regression methods, and autoregression/moving average methods. Integrating forecasting and planning into the engineering organization.

EIN 5514 SPECIAL INDUSTRIAL PROJECTS (1-3)

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 4244 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 4364C 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 4561 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 4364, CR: EIN 4333, ESI 4523. 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.
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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 5306 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 machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.

ESI 5522 COMPUTER SIMULATION II (3) PR: ESI 4523 or equivalent. Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.

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.

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


EMI 3500 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.

EMI 4041 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.

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

EMI 404C THERMAL SYSTEMS AND ECONOMICS (3) PR: EGN 3343. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; co-generation; nuclear energy; methods of economic analysis.

EMI 4124C 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.

EMI 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.


EMI 4302 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.


EMI 4419C PROPULSION (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.

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

EMI 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.

EMI 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.

EMI 4562 INTRODUCTION TO COMPOSITE MATERIALS (3) PR: EGN 3373, EGN 3433. Students study micromechanical and macromechanical behavior of a laminate and analyze and design a laminated structure made of advanced composite materials.


EMI 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.

EMI 4930 SPECIAL TOPICS IN MECHANICAL ENG. (1-4) PR: CC. May be repeated up to 9 credit hours.

EMI 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.

EMI 5225 ACOUSTICS AND NOISE CONTROL (2) Fundamentals of Sound Propagation; Sound Power and Intensity, Psychoacoustics; Industrial Noise sources and Methods of Attenuation; Instrumentation for Noise Measurements.


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

EMI 5326 MOTOR SELECTION AND CONTROL (3) PR: EGN 3373, EGN 3433. Standard electrical voltages, power wiring in industrial plants; NEMA motor designs, techniques for estimating motor starting times and temperature rise; motor selection; starting and operating safety interlocks; conventional motor starting and control systems; direct digital (programmable) controls; electrical code requirements for control systems and protective devices.

EMI 5530 SPECIAL TOPICS III (1-4) PR: CC. May be repeated up to 9 credit hours.

EMI 5531 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 Department is a leader in commissioning and producing new art and art education. The Feasting to Winds has a 20-year tradition of bringing in a large number of top 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 School brings renowned artists and groups such as the Russian Youth Chamber Orchestra, the Florida Brass Quintet, and others to the north Tampa area.

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, a copy of which is 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 of Arts (B.A.) in Art, Dance, and Theatre; the Bachelor of Fine Arts (B.F.A.) in 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 COFA advising office.

Transfer students and students from other units within USF with majors in college-level 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, 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 Preview USF, Fantastic Friday, registration, academic advising, scholarships, graduation certification, mentorship programs, and referrals to other University and community-based services and career oriented opportunities. Four major-field advisors (art, dance, music, theatre), Advising Coordinator, Fine Arts Project Thrust Advisor, and support staff work with students toward their matriculation according to curricular outlines. However, the student must remember that he or she is ultimately responsible for meeting all graduation requirements.

**Office of Student Services and Advising**

The College of Fine Arts Office of Student Services and Advising assists students in developing their educational plans and career goals and fosters their personal development through attention to individual talents and needs.

Our goals are:

- To help students clarify their life and career goals
- To help students develop their educational plans
- To help students select appropriate courses
- To help students interpret institutional requirements
- To evaluate student progress toward established goals
- To make referrals to other institutional or community support services
- 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 an 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 the 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 an advisor.

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 computation 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 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.

Courses for General Education and Liberal Arts Requirements:
Courses in the College of Fine Arts in the departments of Art, Dance, Theatre, and School of Music fall within Area II of the University's General Education Requirements. (See General Education Requirements and special policies for AA degree holders and other transfer students with "General Education Requirements" met.) However, a major in any one of the four departments/school in the College of Fine Arts may utilize only those courses in the other three departments of the College for General Education Requirements. Liberal Arts requirements can be met with designated College of Fine Arts courses.

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, or art education coordinator.
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 before 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 courses 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 clearly specifies the date that the work will be due (within legal limits) 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 advisor, 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. With the exception of such courses as may be specifically required under the College's "Special Requirements" regulation, 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 advisor 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 major students 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: Drawing, Painting, Sculpture, Ceramics, Electronic Intermedia (Computer Imaging, Video), Printmaking, Photography, Art History and Theory. 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.

The requirements for the bachelor's degree in Art Education are listed under the College of Education.

B.A. ART STUDIO

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

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

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2301C</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 2400C</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 2510C</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 2710C</td>
<td>Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 3110C</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3222</td>
<td>Beginning Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>FIL 2200C</td>
<td>Beginning Film</td>
<td>3</td>
</tr>
<tr>
<td>PGY 2401C</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2111C</td>
<td>Advanced Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 2520C</td>
<td>Advanced Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 2702C</td>
<td>Advanced Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 4223</td>
<td>Advanced Electronic Media</td>
<td>3</td>
</tr>
<tr>
<td>ART 4320C</td>
<td>Advanced Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 4402C</td>
<td>Advanced Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>FIL 4520C</td>
<td>Advanced Film</td>
<td>3</td>
</tr>
<tr>
<td>PGY 2410C</td>
<td>Advanced Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

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, the body, social context, mythologies, etc. May be repeated for up to 12 hours.

V. Art History

A minimum of 12 hours in the following history courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4100</td>
<td>Prehistoric &amp; Ancient</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4170</td>
<td>Greek &amp; Roman</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4200</td>
<td>Medieval</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4301</td>
<td>Renaissance</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4350</td>
<td>Baroque and Rococo</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4430</td>
<td>19th Century</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4450</td>
<td>20th Century**</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4520</td>
<td>African</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4530</td>
<td>Oriental</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4796</td>
<td>Critical Studies</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 4955</td>
<td>Senior Projects*</td>
<td>2-4</td>
</tr>
<tr>
<td>ART 5938</td>
<td>The Real World**</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Expanded Contexts***</td>
<td>2-4</td>
</tr>
</tbody>
</table>

TOTAL 6 hours

*Required of all majors

**Professional Practice. Required of all majors. Should be taken during the student's junior year.

***Required of all majors (New York City Program, Paris Program, London Program, Public Art, Museum Internships, Community Art, Artists Internships/Apprenticeships)

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:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>36</td>
</tr>
<tr>
<td>Exit Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Free Electives</td>
<td>16</td>
</tr>
<tr>
<td>(Max. 6 hrs ART)</td>
<td></td>
</tr>
<tr>
<td>Special Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Art Requirements</td>
<td>53</td>
</tr>
</tbody>
</table>

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)

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

TOTAL 11 hours
ART 2201C Fabrications 4 hours

II. Art History Required Courses
ARH 4450 20th Century 4 hours
ARH 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
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

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
(New York 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
Garde 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 120 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:

Studio Concentration

Total number of hours required: 23 hours minimum

I. Art Area Preparation
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 Studio
Beginning Studio Workshop 3 hours
Advanced Studio Workshop 3 hours
Theme Studios 3 hours

OR
Beginning Studio Workshop 6 hours
Advanced Studio Workshop 3 hours
Theme Studio 3 hours

TOTAL 9 hours

Art History Concentration
Total number of hours required: 22 hours minimum

I. Art History Preparation
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
20th Century Art 4 hours
Art History Survey 4 hours

TOTAL 8 hours

• Program of Study at a Florida Community/Junior
College or SUS School for Students Planning to
Transfer to USF (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 maxi-
mum 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.

ART 1201/1202 Design I and Design II
ART 1300/1301 Drawing I and Drawing II
ART 2050/2051 Art History Survey I and Art History Survey II
ART 2XXX Any introductory media course, 6-9 semes-
ter hours

ART EDUCATION

• Requirements for the B.S. Degree (ARE)

The Art Education curriculum is designed to serve students
who wish to develop their artistic competence and have a
commitment to help develop a similar artistic potential in other
people.

Art Education majors may specialize in one area of the Art
Department or become generalists by taking various studio
classes.

For other degree requirements not listed below, please see
the College of Education requirements and the University's
General Education and graduation requirements.

In addition to the general distribution and professional edu-
cation requirements, the following courses constitute a program
of study:

Art Education (15 credit hours)
ARE 3354 ARE 4440 ARE 4642

In these courses students will have the opportunity to work at
the elementary school and high school levels.

Specialization (36 cr. hours)
ART 2400C ART 2510C ART 2701C
ART 3110C ART 4402C ARH 4450

Art Studio Electives approved by adviser
Art History Elective
Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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 unless prior approval is secured.

If students transfer without an A.A. degree and have fewer than 60 semester hours of acceptable credit, they must meet the university’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Courses that transfer: art history, art studio - evaluated by College of Fine Arts by portfolio only.

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.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology (Equivalent course or demonstrated competency may be substituted)

If students are coming to the University from a community college, the following prerequisite courses will be accepted as meeting lower level requirements.

ART 1300/1301 Drawing I and Drawing II
ART X205/X206 Color Fundamentals, 6 semester hours
ARH 2050/2051 Art History Survey I and Art History Survey II

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 experience.

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 Allocey Acocly, Linda Benglis, Jack Burnham, James Cicansky, Robert Colleccott, Michael Dworotskak, Edward Freed, Adam Gopnik, The Guerrilla Girls, Nancy Holt, Barbara Kruger, Donald Kuspit, Alfred Leslie, Komar and Melamed, Marlon Riggs, Tim Rollins, Alison Saar, Lorna Simpson, Miriam Shaprio, Robert Stockhouse, Sidney Tillum, Martha Wilson, and E lyn 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 Stackhouse,Pat Steir, Tyler Turkle, and Robin Winters, as well as internationally recognized artists from African, European, and Latin America, such as Leo Copers, Patrick Corillon, Alfredo Jaar, Antonio Martorelli, Pepon Osonko, 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 architecturally related public art projects designed to enhance the public spaces on the USF campus. Recent projects include works by Dale Elred, Richard Fleischner, Doug Hollis, N. Dash, Stephen Kaltenbach, Elyn Zimmerman, and Mark Handforth 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)
The Dance program offers professional preparation through a curriculum of study leading to a B.A. in Dance with an emphasis in Ballet, Modern Dance, or 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.A. Degree

PERFORMANCE CONCENTRATION

Moderate Emphasis

DAA 3105 Modern Dance III 6
DAA 4106 Modern Dance IV 8
DAA 3204 Ballet II 3
DAA 3205 Ballet III 3
DAA 4930 World Dance 1

Creative Studio Studies

DAA 2700 Choreography I 2
DAA 3701 Choreography II 2
DAA 4702 Choreography III 2
DAA 4703 Choreography IV 2
DAA 2480 Jr. Performance Project 1
DAA 3480 Performance 1
DAA 2490 Sr. Choreographic Project 1

Dance Theory

DAN 4930 Seminar: Dance as an Art Form 2
DAN 2611 Music for Dance II 2
DAN 4111 Survey Dance History 3
DAN 4112 19 & 20th Century Dance History 3
DAN 4170 Dance Senior Seminar 2
DAN 4930 Dance Kinesiology 3
DAN 4300 Dance Pedagogy 3
TPA 2223 Theatrecreats Lighting 3

Ballet Emphasis

Studio Technique

DAA 3205 Ballet III 6
DAA 4206 Ballet IV 8
DAA 3220 Ballet Variations 1
DAA 2104 Modern Dance II 3
DAA 3105 Modern Dance III 3
DAA 4930 World Dance 1

Creative Studio Studies

DAA 2700 Choreography I 2
DAA 3701 Choreography II 2
DAA 4702 Choreography III 2
DAA 4703 Choreography IV 2
DAA 2480 Jr. Performance Project 1
DAA 2480 Performance 1
DAA 4790 Sr. Choreographic Project 1
DANCE EDUCATION CONCENTRATION

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.

For admission to Dance Education, both applicants must satisfy requirements for both Dance and Education Specialization. Students must complete the following program requirements.

**Academic Appeal/Probation**

Students must maintain a minimum cumulative GPA of 3.00 at the University of South Florida. Students are expected to maintain a high academic average throughout their studies.

**Internship in Dance Education**

Students are required to complete an internship in Dance Education, which should be conducted under the supervision of a qualified Dance Education faculty member.

**Seminar in Dance Education**

Students are required to complete a seminar in Dance Education, which should be conducted under the supervision of a qualified Dance Education faculty member.

**Dance Minor Program**

A minimum of 20 hours is required for a dance minor. Students must complete at least 15 hours of Dance courses at the 2000 level or above.

Courses for lower level

Select from:

- Theatre Dance Styles
- Introduction to Dance - 6A
- Fundamentals of Modern Dance I
- Modern Dance II
- Fundamentals of Ballet I
- Ballet II
- Fundamentals of Jazz Dance
- Music for Dance I
- Music for Dance II
- Dance Improvisation

Courses for Upper Level (minimum of 10 hours required)

Select from:

- Movement Theory & Body Alignment
- Modern Dance III
- Ballet III
- Ballet Variations
- Pointe Class
- Men's Class
- Character Dance

Performance

- Jazz Dance
- Jazz Theatre Dance
- Practicum in Dance Production
- Choreography I
- Choreography II
- Survey History of Dance - 6A
- 19th & 20th Century Dance
- Modern Dance IV
- Ballet IV

The Teaching of Dance:

- Theory & Practice

Selected Topics in Dance

- 1. Massage for Dance
- 2. Movement Lab

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. Entrance 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.

• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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 Theatre craft: Stagecraft
   or TPA 2223 Theatre crafts: Lighting
   or TPA 2200 Theatre crafts: 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
   Composition (Designing, Dance Movement, Choreography)
   Basic Stage Lighting
   Dance electives (e.g., jazz, ethnic presented for advisor's evaluation)
   Transfer dance credits must be presented for evaluation by faculty and dance advisor at time of entrance.

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

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 recital 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)**
- MUT 1111 (3)
- MUT 1112 (3)
- MUT 1241 (1)
- MUT 1242 (1)

**Music Literature (3)**
- MUL 2111 (3)

*This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.

**Music History (8)**
- MUH 3301 (3)*
- MUH 3302 (3)*
- MUH 3300 (2) or MUH 4058 (3) or MUH 4801 (3)

*Either course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.

**Conducting (2)**
- MUG 3101

**Senior Seminar (1)**
- MUS 4935 (1)

**Ensemble**
- Performance Majors (8), Composition (8)
- All undergraduate students enrolled in applied music for 3 or 2 credit hours are required to be enrolled in a major ensemble appropriate to their performing medium.

**Music Electives**

**Fine Arts Requirement**
- (12-13 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)**
- MUT 1111 (3)
- MUT 1112 (3)
- MUT 1241 (1)
- MUT 1242 (1)

**Music Literature (3)**
- MUL 2111 (3)*

*This course also satisfies 3 hours of Historical Perspectives in the Liberal Arts Curriculum.

**Music History (9)**
- MUH 3301 (3)*
- MUH 3302 (3)*
- MUH 4801 (3)

*Either course also satisfies 3 hours of Liberal Arts Exit Requirements in Major Works/Major Issues.

**Conducting (2)**
- MUG 3101

**Senior Seminar (1)**
- MUS 4935 (1)

**Elective Hours in Music (9)**

**Ensemble**
- Performance (8), Composition (8)
- All students enrolled in applied music for 3 or 2 hours are required to enroll in a major ensemble appropriate to their performing medium.

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 MUS 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:
  - MUS 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:
  - MUS 3663 (2)
  - MUS 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 wind students, after which they will move from that studio to the studio of the Associate Director of Jazz Studies for their final 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 4201 (3)
  - MUC 2221 (6)
- 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 2221 (3)
- MUC 3401 (3)
- MUC 4131 (3)
- MUC 3231 (3,3)
- MUC 2301 (3)
For other degree requirements for all the above concentrations, see Fine Arts College requirements and the University's General Education and graduation requirements.

- Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (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.

A music theory placement examination will be administered prior to initial registration in the music theory course sequence. 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
MUN XXXX Chamber Music Ensemble, 4 semester hours
MVX 1X1X Secondary Applied Music Courses, 2-4 semester hours
MVX 2X2X Secondary Applied Music Courses, 2-4 semester hours
Secondary Piano Proficiency by Examination
or MVK 1111, 1112, and 2122
or MVK 111r, 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.

Audition 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 210 (see the specific requirements for MUS 210 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 catalog)

Lower Division

- EDG 2701 Teaching Diverse Populations (3)
- EDF 2005 Introduction to Education and Field Experience (3)
- EME 2040 Introduction to Educational Technology (3)
- MUE 2090 Historical Bases of Music Education (2)
- MUE 3214 Human Development and Learning (3)
- MUE 3604 Social Foundations of Education (3)
- MUE 4430 Basic Concepts of Educational Measurements (3)
- EEX 4070 Exceptional Students (2)
- MUE 4936 Senior Seminar (3)
- MUE 4940 Internship (9)

- MUE 4950 (1)* and/or (depending on professional focus)
- MUE 4951 (1)

- MUE 4960 (1)** and/or (depending on professional focus)
- MUE 4961 (1)

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

Music courses (32-34 hours)

- MUE 2090 (3) MUE 3421 (1) MUE 3422 (1)
- MUE 3423 (1) MUE 4311 (3) MUE 4330 (3)
- MUE 3431 (3) MUE 4332 (3) MUE 4936 (3)
- MUE 4960 (9)

- MUE 4950 (1)* and/or (depending on professional focus)
- MUE 4951 (1)

- MUE 4960 (1)** and/or (depending on professional focus)
- MUE 4961 (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 210.

Music electives (3-5 hours)

Applied Music Secondary Techniques
MVP 1211, MVS 1211. One hour of choral ensemble is required for all non-voice majors.
Major performing ensembles (6 hours)

Graduating recital

Piano proficiency requirement (3 hours)

Fine Arts Elective

Students majoring in performing ensembles or Theatre departments. Students should make certain that this 3-hour course is certified in the Fine Arts Perspectives of the Liberal Arts Curriculum in order to graduate within statutory limits/guidelines.

- Requirements for a Minor in Music (19-23 semester hour minimum)

Students seeking a minor in music may choose from three concentrations: (1) History-Theory-Literature, (2) Applied Medium and (3) Composition. Each of the concentrations will include the same core curriculum consisting of 11 hours.

1. Core Curriculum: 11 hours
   - Music Theory (8)
   - Introduction to Music Literature (3)
   - Music History (3)

2. Optional Concentrations:
   a. History-Theory-Literature 9-10 hours
      - Music History and/or Theory and/or Literature (7-8)
      - Music Ensemble (2)
   b. Applied Music (Principal) 8-12 hours
      - Performance Studio courses which may include up to 2 semester hours of class-studio (6-8)
      - Music Ensembles (2-4)
      - MUS 2010 Recital Attendance concurrent with applied music (principal) registration.
      - Faculty jury recommendations for sophomore-level studio study (minimum).
   c. Composition 9 hours
      - Introduction to Electronic Music (2)
      - Composition Studio courses which may include one course of orchestration (6)
      - Music Ensemble (1)

3. Admission to all studio applied music courses is by audition and/or permission of the instructor. Studio courses may be repeated for credit as stipulated in the catalog.

- Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students must 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.

A music theory placement examination will be administered prior to initial registration in the music theory course sequence. 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.

EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology

(Equivalent course or demonstrated competency may be substituted.)

MUT 1111 Music Theory
MUT 1121, 1122, 2126, or 2127
MUT 1112 Music Theory
MUT 1121, 1122, 2126, or 2127
MUT 2116 Music Theory
MUT 1121, 1122, 2126, or 2127
MUT 2117 Music Theory
MUT 1121, 1122, 2126, or 2127
MUT 1241 Music Theory
MUT 1121, 1122, 2126, or 2127
MUT 1242 Music Theory
MUT 1121, 1122, 2126, or 2127
MUT 1241 Aural Theory
MUT 1121, 1122, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MUT 1242 Aural Theory
MUT 1224 Advanced Aural Theory
MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MUT 2247 Advanced Aural Theory
MUT 1221, 1222, 2226, 2227, 1261, 2266, 2267, 1271, 1272, 2276, or 2277
MVX 1X1X Secondary Applied Music Courses, 2-4 semester hours
MVX 2X2X Secondary Applied Music Courses, 2-4 semester hours
MUN XXXX Chamber Music Ensemble, 4 semester hours
Secondary Piano Proficiency by Examination
MVK 1111, 1112, and 2122
MVK 1111r, 1112r, 2121r, and 2121r
MVK 1211 and 2221

Admission Requirements to the University Program of Study

Admission will require an overall GPA of 2.5 with a minimum score of 840 on the SAT (950 if taken after April 1, 1995) or 20 on the ACT. However, an overall 2.25 GPA will be acceptable with a minimum score of 940 on the SAT (1030 if taken after April 1, 1995) or 22 on the ACT. Official grade forgiveness will be used as appropriate.

Professional education courses taken at the community college will transfer as general electives.

Introduction/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 PSI KAPPA LAMDA honor societies. These 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 Roe Cello Scholarship, Zbar Piano Award, and the Virginia A. Bridges Music Education Award.

Visiting Scholars, Artists, and Artists-in-Residence
The Department of Theatre offers courses, conduc tors, 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 Adimson, John Cage, Byron Janis, Karel Husa, Louis Bellson, Leslie Bassett, David Samuels, 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, Edwyn Gordon, Peter Webster, Bennett Reimer, David Elliott, and Elliot Eisner.

THEATRE (TAR)
The Department Major
The Department of Theatre is fully accredited by the National Association of Schools of Theatre (NAST). Through its curriculum and production 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 (BRIT) brings five to ten professional actors 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 residencies.

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: Stagecraft
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 -XMW-XLW
THE 4480 Drama - 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 4180 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 PI's (Production Involvements) as part of their graduation requirements. PI's must be taken under THE 3925 Production Involvement and/or THE 4927 Advanced Production Involvement for a total of 4 PI's. Students may register for PI 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. PI assignments are made by faculty committee following the student's completion of a PI request form and registration in the course. PI 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
(54 hours minimum with core) - 19 hours as follows:
Third Year (10 credit hours)
TPP 3500 Body Disciplines
TPP 3790 Voice Preparation
TPP 4150 Scene Study I
TPP 4152 Scene Study II

Fourth Year (9 credit hours)
TPP 4140 Styles of Acting
TPP 4180 Advanced Scene Study
TPP 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 4208 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.

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:
Choice of one:
TPP 4230 Laboratory Workshop in Performance
TPP 4150 Scene Study I
and
TPP 4310 Directing I
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
or
EDF 3542 Philosophy of Education
EDG 4620 Curriculum and Instruction
EDF 4430 Measurement for Teachers
EEX 4070 Integrating Exceptional Students in the Regular Classroom
EME 4402 Introduction to Computers in Education

Special Methods:
EDG 4520 Introduction to Creative Drama
THE 4761 Methods of Teaching Theatre for Adolescents
THE 4723 Theatre for Pre-Secondary Schools: Performance Process
or
THE 4722 Theatre for Pre-Secondary Schools: Production Process

Practice Experience:
EDG 4940 Internship
EDG 4936 Seminar

• Requirement for a Minor in Theatre
(23 hours minimum):
THE 2020 Theatre Fundamentals
TPA 2200 Theatre Crafts: Stagecraft
TPP 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 PI's (Production Involvement) as part of their graduation requirements. PI'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 PI 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.

- Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

Students should complete the A.A. degree at the community college. Some courses required for the major also may 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 THE X925, 1 semester hour
TPA 2200 Theatre Crafts: Stagecraft, 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.

FINER 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. Travers; 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 4301 RENAISSANCE ART (4)
A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.
ARH 4318 VENETIAN ART (4)
PR: Cl. Major monuments 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.

ARH 4350 BAROQUE AND ROCOCO ART (4)
A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.

ARH 4430 NINETEENTH CENTURY ART (4)
A comprehensive study of nineteenth century painting, sculpture and architecture in America and Europe. Gender/cultural considerations 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.

ARH 4452 AFRICAN ART (4)
A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolisms and meanings. Open to non-majors.

ARH 4530 ORIENTAL ART (4)
An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

ARH 4547 BUDDIST ART (4)
PR: Cl. This course examines one important aspect of Asian artistic production. Buddhist art begins in India and travels via the Himalayas and Southeast Asia to East Asia, touching on artistic expression of major principles and practices, changes in art as the religion comes into contact with pre-existing cultures, and modern artistic practice.

ARH 4554 JAPANESE PRINTS (4)
This course examines one important aspect of Asian artistic production. "Japanese Prints" concentrates on the period from 1615 to the present and distinguishes schools, styles, artists, subjects, patronage patterns, and technical matters. The role of prints within society and on Western art is examined throughout.

ARH 4557 CHINESE ART (4)
PR: Cl. 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.

ARH 4710 HISTORY OF PHOTOGRAPHY -SA -XMW (4)
PR: Cl. 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.

ARH 4790 SELECTED TOPICS IN THE HISTORY OF FILM (4)
In-depth investigation of a selected period, development, or school in the history of film as art. May be repeated.

ARH 4796 CRITICAL STUDIES IN ART HISTORY -SA (4)
PR: Cl. Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering. May be repeated for different topics only.

ARH 4930 ART HISTORY: SELECTED TOPICS (2-4)
Lecture discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.

ARH 4933 SEMINAR IN THE HISTORY OF ART HISTORY (4)
PR: Four courses in Art History at the 4000 level. Cl. An examination of the origins of Art History as a discipline and changing nature of Art History from Vasari to the present.

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

ARH 5385 CULTURAL AND INTELLECTUAL HISTORY OF RENAISSANCE AND BAROQUE ART (4)
A course in which Renaissance and Baroque theories of art are treated as part of general cultural and intellectual history.

ARH 5451 CULTURAL AND INTELLECTUAL HISTORY OF MODERN ART (4)
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.

ARH 5797 METHODS OF ART HISTORY (4)
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.)

ARH 5797 GALLERY AND MUSEUM INTERNSHIP (2-6)
By working in Bay Area museums or galleries, students will become familiar with various museological operations. Internships vary owing to 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.)

ART 2111C ADVANCED CERAMICS (3)
PR: ARH 3110C. Continued problems in ceramics. May be repeated.

ART 2201C FABRICATIONS -FA (4)
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 theory. Studio problems supplemented by lecture and discussion. Emphasis on images of implied time and space.

ART 2301C BEGINNING DRAWING (3)
Intermediate projects exploring the methods, media, and concepts of drawing.

ART 2400C BEGINNING PRINTMAKING (3)
Projects in printmaking with emphasis on the exploration of methods and media and the development of individual concepts.

ART 2520C ADVANCED PAINTING (3)
PR: ART 2510C. Continued projects in painting. May be repeated.

ART 2701C BEGINNING SCULPTURE (3)
Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.

ART 2702C ADVANCED SCULPTURE (3)
PR: ART 2701C. Continued problems in sculpture. May be repeated.

ART 2930 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 3110C BEGINNING CERAMICS (3)
Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts.

ART 3222 BEGINNING ELECTRONIC MEDIA (3)
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.

ART 3488 MULTI-MEDIA PRINTMAKING (3)
PR: ARH 3001, ART 2201C. ART 2301C. Investigation of Printmaking Media including: monoprinting, collagraph, relief printing and the dimensional print with emphasis on the
development of individual concepts.

ART 3469 PHOTO-PRINTMAKING (3)
PR: ARH 3001, ART 2201C, ART 2301C. Investigation of Photo-Printmaking and Darkroom Techniques including: Photo Etching, Photo Screen Printing, Photo Woodcut, and Photogravure with emphasis on development of individual concepts.

ART 3835 STUDIO TECHNIQUES: SELECTED PROJECTS (2)
PR: ARH 3001, ART 2201C, ART 2203C, and CI. 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 4223 ADVANCED ELECTRONIC MEDIA (3)
PR: ART 3222 or CI. 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 4320C 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 CI. May be repeated up to 12 credit hours.

ART 4900 DIRECTED READING (1-4)
PR: CI and C.C. 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.

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 photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media. May be repeated.

ART 5536C PAINTING III (3)
PR: ART 2520C. 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, the topic/technique-related 3000-4000 level studio sequence and CI. Concentration in specialized media or processes. May be repeated for credit for different topics only.

FIL 2001 FILM: THE LANGUAGE OF VISION -6A -FA (4)
Open to both majors and non-majors. Exploration of the history of creative filmmaking from its beginnings to the present time. May not be repeated.

FIL 2200C BEGINNING FILM (3)
Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

FIL 3510 WORLD CINEMA -6A -FA (4)
Offers international perspectives through an examination of films from around the world. Each week narrative films from acclaimed directors will be screened, read about and discussed.

FIL 4201C ADVANCED FILM (3)
PR: FIL 2200C. More advanced projects in filmmaking to further develop works both technically and conceptually.

FIL 5536C CINEMATOGRAPHY (4)
PR: FIL 4201C. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions. May be repeated.

PGY 2401C BEGINNING PHOTOGRAPHY (3)
Introduction to the expressive possibilities of photographic media. Projects and assignments will introduce students to both traditional and experiential ways of working with light-sensitive materials with an emphasis on the interdependence of form, technique, and concept. The course will also provide an overview of significant trends and directions in contemporary art photography.

PGY 2410C ADVANCED PHOTOGRAPHY (3)
PR: PGY 3401C. Continued problems in photography. May be repeated.

Art Education

ARE 3044 EXPERIENTIAL BASIS OF ARTISTIC MIND (3)
PR: Admission to College of Education. Designed to awaken the language of image and metaphor, with emphasis on the internal and expressive aspects of art as well as their application in the schools and the community.

ARE 3354 ART TEACHING STRATEGIES I (3)
PR: Admission to College of Education and ARE 3044. A combination of theory, philosophy and practice in both public and private learning centers to provide the student with a variety of teaching concepts and media exploration in art education and to further enable the student to understand stages of young people, three to eighteen.
ARE 4112 EDUCATION THROUGH CRAFTS
An in-depth study of arts and craft media for children. Emphasis will be placed on innovative use of new materials and curriculum in school restructuring.

ARE 4440 ART TEACHING STRATEGIES II
(3) Media and the learning process will be explored through photographic arts, cinematography and video systems. Teaching strategies and media criticism for application at elementary and secondary levels.

ARE 4443 CRAFTS WORKSHOP IN ART EDUCATION
(3) PR: Admission to College of Education and ARE 3044. The study and practice of processes and media involved with the exploration and expression of cultural traditions and individual ideas through crafts.

ARE 4642 COMMUNITY ARTS
(3) PR: Admission to College of Education and ARE 3044. Explores the arts as infrastructure through identification, exploration and experimentation of/with unique community spaces, populations and new environments for and learning in the arts.

ARE 4909 DIRECTED STUDY: ART EDUCATION
(1-3) PR: Senior standing. Designed to extend competency in field of art education.

ARE 4936 SENIOR SEMINAR IN ART EDUCATION
(2) PR: Senior standing. CR: ARE 4940. Synthesis of teacher candidate's courses in complete college program.

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

Dance

DAA 2000 THEATRE DANCE STYLES
(2) PR: DAA 2100 or DAA 2200 or CI. Development of technical skills in structural 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 2100 FUNDAMENTALS OF MODERN DANCE I
(2) To acquaint beginning modern students with fundamentals of dance vocabulary, movement, rhythm, and alignment. May be repeated.

DAA 2104 MODERN DANCE II
(3) PR: Admission by placement audition. 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 2200 FUNDAMENTALS OF BALLET I
(2) To acquaint beginning ballet students with fundamentals of vocabulary, movement, rhythm, and alignment. May be repeated.

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, school 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. Preparation of studies in theme and variations, breath phrases and metric phrases. May be repeated.

DAA 2920 BALLET I
(3) PR: Admission by placement audition. Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated.

DAA 3105 MODERN DANCE III
(3-4) PR: Admission by placement audition. Continuation of DAA 2104. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May be repeated.

DAA 3205 BALLET III
(3-4) PR: Admission by placement audition. Continuation of DAA 2204. Intensification of barre exercises for the development of strength and form. Application of phrasing and movement. Material covered as practical work in class for concerts and performances. May be repeated.

DAA 3220 BALLET VARIATIONS
(1) PR: DAA 3205. This course provides instruction in various forms of ballet. Semester courses include: Pointe technique. Men's Class, Character Dance, Spanish Dance, and Partnering. Ballet majors are required to complete two semester hours. May be repeated.

DAA 3400 REPERTORY
(1) P.R. Admission by audition or CC. Open to all University students concurrently enrolled in dance technique classes by audition. The development and performance of solo and/or group dances. May be repeated.

DAA 3502 JAZZ DANCE
(2) PR: Admission by placement audition, DAA 2104 or DAA 2204. A technique class for the intermediate level dancer to become acquainted with the dance styles and forms of musical theatre and concert jazz dance. Emphasis is on highly stylized movement on a strong rhythmic base. May be repeated.

DAA 3503 JAZZ THEATRE DANCE
(3) PR: Admission by placement audition and DAA 3502. Continuation of DAA 3502. Further emphasis on projection, phrasing, rhythmic patterns, and dynamics. Solo and ensemble studies leading to performance. May be repeated.

DAA 3701 CHOREOGRAPHY II
(2) PR: DAA 3700 or CI. Preparation of studies in rhythm, dynamics, form, and motivation. May be repeated.

DAA 3704 DANCE IMPROVISATION
(2) For majors and non-majors. Exploring various methods of spontaneously creating dance movement in individual and group situations. Structured and unstructured approaches will be explored. May be repeated.

DAA 3800 SPECIALIZED STUDY IN MOVEMENT
(2) THEORY AND BODY ALIGNMENT
(2) Analysis of scientific basis of movement for the dancer through the study of body alignment and movement theories related to dance techniques.

DAA 4106 MODERN DANCE IV
(4) PR: Admission by placement audition or CI. Intensive work on the growth of personal performance styles. Equal emphasis will be given to training the body in the development of technical excellence. May be repeated.

DAA 4206 BALLET IV
(4) PR: Admission by placement audition or CI. Perfecting the execution of barre work. Intensification of centre work. More stress on aesthetic quality of movement and phrasing. Students expected to be proficient in pointe work. Outside projects, concerts, and performances are required. May be repeated.

DAA 4702 CHOREOGRAPHY III
(2) PR: DAA 3701 or CI. Work directed toward duets and group dances. The students will submit choreographic ideas for instructor's approval, then proceed with rehearsals. Lec-lab., reading. Rehearsal hours to be arranged. May be repeated.

DAA 4703 CHOREOGRAPHY IV
(2) PR: DAA 4702. The students will prepare studies based on free form, minimal art, and chance methods. Lec-lab., reading. May be repeated.

DAA 4790 SENIOR PROJECT
(1-5) 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.
DAA 4920 DANCE STUDIES (1-4)
PR: CI and CC. 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 (3)
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.

DAN 2100 INTRODUCTION TO DANCE -6A (3)
For majors and non-dance majors. A study of the art and language of dance through lectures, discussions, concert attendance, and studio practice. Designed to develop awareness and insight of this art form through discussion, observation, writing, and movement experience.

DAN 2610 MUSIC FOR DANCE I (2)
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 2612 MUSIC FOR DANCE II (2)
PR: DAN 2610 or CI. Elements within historical context. Continued problems in rhythmical materials.

DAN 3590 PRACTICUM IN DANCE PRODUCTION I (1-2)
A practicum in mounting dance concerts with workshop and backstage participation. Intended for students working in costumeing, set preparation, light presentation, 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 4111 SURVEY HISTORY OF DANCE -6A (3)
Survey history of dance. Study of development of dance from its inception through 18th Century. Social and theatrical dance forms, Ethnic Dance included. Reading, lecture, and visual aids.

DAN 4112 19TH AND 20TH CENTURY DANCE (3)
Survey history of dance. Study of development of dance from 19th Century through 20th Century. Theatrical and other expressive forms included. Reading, lecture, and visual aids.

DAN 4170 DANCE SENIOR SEMINAR (2)
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. Readings 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 4995 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 3362 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 3663 CRITICAL ISSUES AFFECTING THE ARTS -6A - XMW (3)
PR: JR Standing or CI. A discussion based on examination of current trends, educational policies, governmental regulations, and financial factors which impact Art, Dance, Music, and Theatre. S/U option.

MUC 2221 COMPOSITION (3)
PR: MUT 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 3340, 3402 ELECTRONIC MUSIC-ANALOG SYNTHESIS (3,3)
PR: MUC 2301 and CI. Composition for tape medium with analog synthesizers; use of sound recording studio; repertory or analog music synthesis; technical basis of analog systems design and construction.

MUC 3441, 3442 ELECTRONIC MUSIC-DIGITAL SYNTHESIS (3,3)
PR: MUC 3401 or 3402 and CI. 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 (3)
PR: Necessary competency at MUC 3231 level determined by faculty jury. Private instruction in original composition. Required of composition majors. Must be repeated for credit for a minimum of 6 hours for majors.

MUC 4403, 4404 ELECTRONIC MUSICAL INSTRUMENTS (3,3)
PR: MUC 3402 and MUC 3442 or equivalent. Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.

MUC 4411 SEMINAR IN NEW MUSICAL SYSTEMS (3)
PR: CI. 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 (3)
PR: MUT 3354 and/or CI. 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 5304 BASIC CONDUCTING (2)
PR: CI. The study and practical application of basic conducting techniques. Development of skills related to the conducting of musical scores.

MUC 4302 INSTRUMENTAL CONDUCTING (2)
PR: MUC 3101 & CI. 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 (2)
Popular music in the U.S. from 1820 to present. Units on the big band era, country and western, jazz, Black music, and the rock scene beginning in 1955.

MUH 2051 FOLK AND TRADITIONAL MUSIC OF WORLD CULTURES (3) - 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.
MUH 2632 MUSIC IN THE UNITED STATES -FA
(3)
Designed for majors and non-majors, this course will use live performances, video tapes, and recordings to illustrate music as practiced in America from Colonial to present times. Included in the course will be 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
(2)
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(2)
PR: CI. 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(3)
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 CI.

MUH 3302 MUSIC HISTORY/ROMANTIC AND 20TH CENTURY -XMW
(3)
PR: MUL 2111 or CI. 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 CI.

MUH 4058 INTERCULTURAL MUSIC IN THE 20TH CENTURY -XMW
(3)
PR: MUH 2051 or MUL 2111 or CI. 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.

MUH 4081 HISTORY OF JAZZ
(3)
PR: MUN 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
(3,3)
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
(3)
PR: MUN 1112 or CI. A survey of representative music examples of the past and present with emphasis on the forms and styles of music. Required of music majors.

MUL 3001 ISSUES IN MUSIC -AF
(2-3)
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 (below)
PR: CI. 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 3443 WIND ENSEMBLE
(1)
MUN 3213 UNIVERSITY ORCHESTRA
(1)
MUN 3313 UNIVERSITY SINGERS
(1)
MUN 3383 UNIVERSITY-COMMUNITY CHORUS
(1)
MUN 3403 PIANO ENSEMBLE
(1)
MUN 3713 JAZZ ENSEMBLE
(1)
MUO 3503 OPERA WORKSHOP
(1)

CHAMBER MUSIC ENSEMBLES (below)
PR: CI. Open to all university students with the necessary proficiency in their performing 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
(1)
MUN 3411 STRING QUARTET
(1)
MUN 3420 SAXOPHONE ENSEMBLE
(1)
MUN 3421 FLUTE CHOIR
(1)
MUN 3424 WOODWIND QUINTET
(1)

MUN 3431 BRASS QUINTET
(1)
MUN 3432 HORN QUARTET
(1)
MUN 3433 BRASS CHOIR
(1)
MUN 3443 PERCUSSION ENSEMBLE
(1)
MUN 3444 MARIMBA ENSEMBLE
(1)
MUN 3473 COLLEGIUM MUSICUM
(1)
MUN 3483 CLASSICAL GUITAR ENSEMBLE
(1)
MUN 3714 JAZZ CHAMBER ENSEMBLE
(1)

MUS 3431 BRASS QUINTET
(1)
MUS 3432 HORN QUARTET
(1)
MUS 3433 BRASS CHOIR
(1)
MUS 3443 PERCUSSION ENSEMBLE
(1)
MUS 3444 MARIMBA ENSEMBLE
(1)
MUS 3473 COLLEGIUM MUSICUM
(1)
MUS 3483 CLASSICAL GUITAR ENSEMBLE
(1)
MUS 3714 JAZZ CHAMBER ENSEMBLE
(1)

MUS 2010 RECITAL ATTENDANCE
(0)
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
(1)
Specialized study in Language Diction for Singers. Specific language varies, to be arranged at each course offering. May be repeated for a total of three different languages only. Required of voice performance majors.

MUS 4905 DIRECTED STUDY
(1-4)
PR: CC. Independent studies in the various areas of music; course and credits must be assigned prior to registration; may be repeated.

MUS 4930 SELECTED TOPICS IN MUSIC
(1-4)
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.

MUS 4931 SELECTED STUDIO TOPICS IN MUSIC
(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.

MUS 4935 MUSIC SENIOR SEMINAR
(1)
PR: CI. To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues. (S/U only)

MUS 5905 DIRECTED STUDY
(1-4)
PR: CC. Independent studies in the various areas of music; course and credits must be assigned prior to registration; may be repeated.

MUSIC WORKSHOP COURSES (below)
PR: CI. Intensive study in the specialized areas indicated below; open to teachers, University students, and secondary students; credit available to qualified students.

MUS 5927 ORCHESTRA WORKSHOP
(1-2)
MUS 5929 STRING WORKSHOP
(1-2)
MUT 1001 RUDIMENTS OF MUSIC
(2)
Open only to non-music majors; development of skills in hearing and performing music and in basic notation. Will not count as degree credit for music majors.

MUT 1111, 1112 MUSIC THEORY
(3,3)
PR: CI. Required of music majors; development of skills in perceiving and writing music through the use of aural and visual analysis and examples from all historical periods of music.

MUT 1241, 1242 AURAL THEORY
(1,1)
PR: CI. Course designed to begin training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUN 1111, 1112.

MUT 2116, 2117 MUSIC THEORY
(3,3)
PR: MUN 1112. Required of music majors, continuation of MUN 1111 and 1112.

MUT 2246, 2247 ADVANCED AURAL THEORY
(1,1)
PR: MUT 1242. Course designed to continue training in aural recognition and vocal realization of materials used in music composition. Includes rhythmic, melodic and harmonic dictation, and sight singing. To be taken concurrently with MUT 2116, 2117.

MUT 2641 JAZZ THEORY AND IMPROVISATION I
(2)
PR: MUT 1112 and/or CI. A study of jazz improvisational techniques and related jazz theory.

MUT 2642 JAZZ THEORY AND IMPROVISATION II
(2)
PR: MUT 3641 or CI. A study of jazz improvisational techniques and related jazz theory.
MUT 3353 JAZZ COMPOSITION AND ARRANGING I (3) 
PR: MUT 1112 and Cl. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic, and melodic practices.

MUT 3354 JAZZ COMPOSITION AND ARRANGING II (3) 
PR: MUT 1112 and Cl. Course designed to develop arranging and/or compositional skills in the jazz idiom through the study of jazz orchestration, harmonic and melodic practices.

MUT 3663 ADVANCED JAZZ IMPROVISATION I (2) 
PR: MUT 3642 or Cl. 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.

MUT 3664 ADVANCED JAZZ IMPROVISATION II (2) 
PR: Jazz Styles and Analysis I or Cl. 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.

MUT 4311, 4312 ORCHESTRATION (3, 2) 
PR: Intensive study and practice in scoring music for various combinations of instruments, including symphony orchestra, band, and smaller ensembles of string, wind, brass, and percussion instruments.

MUT 4411 SIXTEENTH CENTURY PRACTICE (3) 
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.

MUT 4421 EIGHTEENTH CENTURY PRACTICE (3) 
PR: MUT 2117. An intensive study of the contrapuntal practice of the 18th century; development of skills in perceiving and writing music in the style of the period through the use of aural and visual analysis.

MUT 4571 TWENTIETH CENTURY PRACTICE (3) 
PR: MUT 2117. A study of 20th century theoretical concepts; development of skills in perceiving and writing music in contemporary styles through the use of aural and visual analysis.

MUT 5051 GRADUATE REVIEW OF MUSIC THEORY (2) 
A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and does not count toward the graduate degree requirements.

SECONDARY APPLIED MUSIC COURSES (below) 
PR: CI. One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training. Course is open by audition only.

CLASS PIANO COURSES (below) 
PR: Cl. Class is elementary piano and music fundamentals designed for students with limited keyboard experience.
May be repeated for credit three semesters only. Applied music courses are NOT available on S/U basis.

MVS 1416 CLASSICAL GUITAR MAJOR (3)
MVS 1411 VOICE MAJOR (3)
MVS 1415 FLUTE MAJOR (3)
MVS 1412 OBOE MAJOR (3)
MVS 1413 CLARINET MAJOR (3)
MVS 1414 BASSOON MAJOR (3)
MVS 1415 SAXOPHONE MAJOR (3)

APPLIED MUSIC COURSES (below)

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

MVB 2421 TRUMPET MAJOR (3)
MVB 2422 FRENCH HORN MAJOR (3)
MVB 2423 TROMBONE MAJOR (3)
MVB 2424 EUPHONIUM MAJOR (3)
MVB 2425 TUBA MAJOR (3)
MVS 2420 APPLIED JAZZ PIANO MAJOR (3)
MVS 2423 JAZZ GUITAR MAJOR (3)
MVS 2424 CLASSICAL GUITAR MAJOR (3)
MVS 2421 PIANO MAJOR (3)
MVP 2423 ORGAN MAJOR (3)
MVP 2421 PERCUSSION MAJOR (3)
MVS 2421 VIOLIN MAJOR (3)
MVS 2422 VIOLA MAJOR (3)
MVS 2423 CELLO MAJOR (3)
MVS 2424 DOUBLE BASS MAJOR (3)
MVS 2425 HARP MAJOR (3)
MVS 2426 CLASSICAL GUITAR MAJOR (3)
MVS 2421 VOICE MAJOR (3)
MVS 2421 FLUTE MAJOR (3)
MVS 2422 OBOE MAJOR (3)
MVS 2423 CLARINET MAJOR (3)
MVS 2424 BASSOON MAJOR (3)
MVS 2425 SAXOPHONE MAJOR (3)

APPLIED MUSIC COURSES (below)

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

MVB 3431 TRUMPET MAJOR (3)
MVB 3432 FRENCH HORN MAJOR (3)
MVB 3433 TROMBONE MAJOR (3)
MVB 3434 EUPHONIUM MAJOR (3)
MVB 3435 TUBA MAJOR (3)
MVP 3430 APPLIED JAZZ PIANO MAJOR (3)
MVS 3433 JAZZ GUITAR MAJOR (3)
MVS 3434 CLASSICAL GUITAR MAJOR (3)
MVS 3431 PIANO MAJOR (3)
MVS 3433 ORGAN MAJOR (3)
MVP 3431 PERCUSSION MAJOR (3)
MVS 3431 VIOLIN MAJOR (3)
MVS 3432 VIOLA MAJOR (3)
MVS 3433 CELLO MAJOR (3)
MVS 3434 DOUBLE BASS MAJOR (3)
MVS 3435 HARP MAJOR (3)
MVS 3436 CLASSICAL GUITAR MAJOR (3)
MVS 3431 VOICE MAJOR (3)
MVS 3435 FLUTE MAJOR (3)
MVP 3432 OBOE MAJOR (3)
MVS 3433 CLARINET MAJOR (3)
MVP 3434 BASSOON MAJOR (3)
MVS 3435 SAXOPHONE MAJOR (3)

APPLIED MUSIC COURSES (below)

PR: Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and instruction in string, woodwind, brass and percussion instruments, voice and piano. Must be repeated for credit for minimum of 8 hours for majors.

MVB 4441 TRUMPET MAJOR (3)
MVB 4442 FRENCH HORN MAJOR (3)
MVB 4443 TROMBONE MAJOR (3)
MVB 4444 EUPHONIUM MAJOR (3)
MVB 4445 TUBA MAJOR (3)
MUE 4950 APPLIED JAZZ PERFORMANCE (3) 
PR: Junior standing. This 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 2640 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: Cl. 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: Cl. 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: Cl. A study of orchestral 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 3461 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 woodwind instruments.

MUE 3461 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 4210 MUSIC FOR 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: Cl. A study of principles, techniques, materials, and activities 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: Cl. 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 4352 FOUNDATIONS OF INSTRUMENTAL MUSIC (2) 
PR: Cl. 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 methods. Offered only as a scheduled class.

MUE 4936 SENIOR SEMINAR IN MUSIC (3) 
THE 3925 INTERNSHIP: MUSIC EDUCATION (1-12)
CR: MUE 4936. One full semester of internship in a public or private school. In special programs where the intern 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, TPF 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 4110 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 4180 THEATRE ORIGINS - 6A - XMW (4)
PR: THE 3100 and one of the following: THE 4320, THE 4330, THE 4360, THE 4401, THE 4442, THE 4480. An analysis of the development of theatre out of myth, ritual, and liturgy. Emphasis placed on what attempts to understand the resulting phenomena (e.g. Aristotle's Poetics) can teach us about the nature of our art. Either THE 4180 or THE 4562 is required of all theatre majors. Open to senior 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 THE THEATRE OF MYTH AND RITUAL/NORTHERN EUROPEAN (950-1600) AND ORIENTAL (400-1200) - 6A - XMW (3)
PR: THE 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 (3)
PR: THE 3100. A close 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 - XMW (3)
PR: THE 3100. Survey of the European art theatre revolution against the backdrop of the aesthetic 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: THE 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: THE 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 COMEDY OF THE CLASSIC AND NEO-CLASSIC STAGE - 6A - XMW (3)
PR: THE 3100. A study of comedic function in scripts from Greek and Roman, Restoration and French Neo-classical 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: THE 3100. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramas. Open to upper level non-majors with CI.

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

THE 4593 HONORS SEMINAR (2)
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, Jacobean 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 4593 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 studies 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 CI. 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: CI. 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 CC. Independent studies 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: CI. 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 2233 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 2248</td>
<td>WORKSHOP IN STAGE MAKEUP</td>
<td>1</td>
<td>Open to non-majors. Theatre majors given preference. A studio course.</td>
</tr>
<tr>
<td>TPA 3004</td>
<td>MEANS OF VISUAL EXPRESSION</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3280</td>
<td>SOUND FOR THE STAGE</td>
<td>3</td>
<td>PR: TPA 2223. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects. Open to non-majors with CI.</td>
</tr>
<tr>
<td>TPA 3810</td>
<td>INTRODUCTION TO PUPPETRY</td>
<td>3</td>
<td>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 non-majors with CI.</td>
</tr>
<tr>
<td>TPA 3840</td>
<td>PUPPETRY PERFORMANCE AND PRODUCTION</td>
<td>4</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 4020</td>
<td>LIGHT DESIGN</td>
<td>4</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 4030</td>
<td>COSTUME DESIGN</td>
<td>4</td>
<td>PR: ART 3301C, THE 2464, 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/costume.</td>
</tr>
<tr>
<td>TPA 4050</td>
<td>SCENE DESIGN I</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 4077</td>
<td>SCENE PAINTING</td>
<td>2</td>
<td>PR: TPA 3004. A practical course in the painting of stage scenery. Media and application. Open to upper level non-majors with CI.</td>
</tr>
<tr>
<td>TPA 4208</td>
<td>STAGECRAFT AND DRAFTING</td>
<td>3</td>
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<tr>
<td>TPA 4231</td>
<td>COSTUME CONSTRUCTION</td>
<td>3</td>
<td>PR: TPA 2232 and TPA 3004. A practical course in the drafting of patterns for costuming the actor. Materials, skills, and techniques for construction of costumes and costume accessories will be treated. Included topics are millinery, footwear, jewelry, masks, armor, corsetry; both period and modern. Open to upper level non-majors with CI.</td>
</tr>
<tr>
<td>TPA 4273</td>
<td>STAGE PROPERTIES: TECHNIQUES AND MATERIALS STUDY</td>
<td>2</td>
<td>PR: TPA 3004. Demonstration 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.</td>
</tr>
<tr>
<td>TPA 2110</td>
<td>VOICE-BODY-IMPROVISATION</td>
<td>3</td>
<td>Exploring the elements basic to acting skills, a participation course. Required of all theatre majors. Open to non-majors.</td>
</tr>
<tr>
<td>TPA 2111</td>
<td>WORKSHOP FOR TEXT ANALYSIS</td>
<td>3</td>
<td>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 TPA 2111 and CI.</td>
</tr>
<tr>
<td>TPA 2200</td>
<td>LIGHTING THEORY AND PRACTICE</td>
<td>3</td>
<td>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. A requirement in the design track/lighting. Open to upper level non-majors with TPA 2223 and CI.</td>
</tr>
<tr>
<td>TPA 3280</td>
<td>WORKSHOP IN STAGE MAKEUP</td>
<td>1</td>
<td>Open to upper level non-majors with TPA 2223 and CI.</td>
</tr>
<tr>
<td>TPA 3280</td>
<td>SOUND FOR THE STAGE</td>
<td>3</td>
<td>PR: TPA 2223. Basic study of audio components, fundamental properties of sound, multiple channel recording, editing, reproduction and reinforcement. Methods and techniques used in theatre to create sound effects. Open to non-majors with CI.</td>
</tr>
<tr>
<td>TPA 3810</td>
<td>INTRODUCTION TO PUPPETRY</td>
<td>3</td>
<td>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 non-majors with CI.</td>
</tr>
<tr>
<td>TPA 3840</td>
<td>PUPPETRY PERFORMANCE AND PRODUCTION</td>
<td>4</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 4020</td>
<td>LIGHT DESIGN</td>
<td>4</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 4030</td>
<td>COSTUME DESIGN</td>
<td>4</td>
<td>PR: ART 3301C, THE 2464, 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/costume.</td>
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</tr>
</tbody>
</table>
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 pieces.

TPP 4600 WRITING FOR THE THEATRE I (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 almost state 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 criteria are highly selective. New College looks for students who have demonstrated above average ability, academic motivation and self-discipline. About 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 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 tools 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 is linked through inter-library loan to the USF system of over one million volumes, and through 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 special 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, and has an exchange program with the University of Newcastle.

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.

Study 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, fine arts, retailing, management, finances, 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. By special petition and with summer study, exceptionally qualified students may complete the degree requirements in three years. 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 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 and merit-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 and for USF scholarships. 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 of Arts and Sciences, 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 nursing 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 university campuses. Registered nurses who enroll as full-time students may complete requirements for the bachelor's degree in three semesters. If they enroll as part-time students, the degree requirements can be completed in six semesters.

The program is accredited by the National League for Nursing and approved by the Florida State Board of Nursing. Graduates of the basic sequence are eligible to write the qualifying examination for licensure as a registered nurse. Graduates may apply for licensure in Florida or other states. Graduates of the undergraduate program have the educational background necessary for graduate study in nursing.

The College of Nursing encourages applications from qualified applicants of both sexes and from all cultural, racial, religious, ethnic, and age 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 committed to the enhancement of individual, 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 research and provides evidence that supports the 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 health 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 the 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 strives 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 research. 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, disease prevention, health restoration and rehabilitation.

3. Demonstrate understanding of the research process by applying clinical data and research findings in 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 professional 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, MCB 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.

Students who enroll at USF in the lower division must meet the requirements for admission to the University and are admitted to 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 4 of the year in which the student plans to enroll.

Registered nurse students are admitted to the College in fall and spring semesters. The deadline for receipt of an application from registered nurse students is March 1 for the fall semester and September 1 for the spring semester of the coming year in which the student plans to enroll. Registered nurse students are admitted to the College contingent upon completion of admission requirements. Preference for admission will be given to students who have completed the most prerequisites by the application deadline date.

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 freshmen, out of state transfer students, in state transfer students from private institutions and former USF students returning. Transfer students from Florida public post secondary institutions may have the option of selecting general education requirements listed in a catalog prior to 1994-95. These requirements may be satisfied by the completion of the following:

   - English 6
   - Math 6
   - Algebra (3) 6
   - Statistics (3) 3
   - Fine Arts 3
   - Chemistry (4-6) 16-19
   - Nutrition (3-4) 16
   - Anatomy/Physiology (5-8) 15
   - Life Cycle (3) 15
   - Psychology (3) 15
   - Sociology (3) 15
   - Economics (3) 15
   - Government/Policy (3) 15
   - Natural Science 3

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 more than two (2) repeated courses and not more than one (1) repeat of any given course.

6. Complete the College Level Academic Skills Test (CLAST) 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 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
- NUR Electives

The following courses are restricted to fully admitted students: NUR 4636, NUR 4636L, NUR 4838, and NUR 4948L.

In addition to the requirements listed, a minimum of 10 credits in upper level electives is required for graduation: at least six (6) credits in upper level courses in Liberal Arts (courses in arts, humanities, natural or behavioral sciences, economics, business or management, education, etc., are acceptable) and at least four (4) credits in liberal arts (NUR 4935, Selected Topics in Nursing and/or NUR 4905C, Independent Study in Nursing can be used in addition to regularly approved electives). Planning with an academic advisor prior to enrollment in upper-level electives is strongly recommended.

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 (813-974-2191). 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 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 3122

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 - A range of 4 to 6 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.

m. Anatomy and Physiology - one course. A combined course in anatomy and physiology which is equivalent to BSC 3002 is acceptable or two 4 credit individual courses. The ACT/PEP examination in anatomy and physiology is acceptable.

c. Nutrition - one course. College of Nursing Challenge Examination or University of Florida correspondence course are acceptable. HUN 2201

3. Social Sciences

a. Government - one course in government/policy. CLEP is acceptable. POS 2041, POS 2112, PAD 3003, POT 4204. POS 4424. SYO 4300.

b. Psychology, Sociology and Economics - one course in each area. CLEP is acceptable.

C. Human Growth and Development (Life Span) - Must include birth through aging process to death. HUS 4020, DEP 4005 or DEP 3103 and GEY 3000.

CLEP 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 requirements of 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: American Government POS 2041; English Composition ENC 1101, 1102; Economics ECO 2013; 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 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 in 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 maybe 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 enrolled in the nursing major Fall 1995 and thereafter meet the following courses in the five semester sequence:

Junior Year (2 semesters)

NUR 3113 Culture of Nursing (2)
NUR 3114 Introduction to Clinical Judgement (3)
NUR 3114L Introduction to Clinical Practice (2)
NUR 3064C Health Assessment Across the Life Span (3)
NUR 3829 Ethical Legal (3)
NUR 3145 Pharmacology in Nursing Practice (2)
NUR 3215 Adult Health I (3)
NUR 3215L Adult Practice in Adult Health I (3)
NUR 3284C Gerontological Nursing (2)

Senior Year (3 semesters)

NUR 4216 Adult Health II (3)
NUR 4216L Clinical Practice in Adult Health II (3)
NUR 4241L Nursing Inquiry (2)
NUR 4041 Culture in Nursing Practice (2)
NUR 4616 Family Health (4)
NUR 4616L Clinical Practice in Family Health (3)
NUR 4636 Community Health (2)
NUR 4636L Clinical Practice in Community Health (2)
NUR 4765C Rehabilitation Across the Life Span (2)
NUR 4838 Leadership/Management (3)
NUR 4525 Psychiatric/Mental Health (2)
NUR 4525L Psychiatric Practice in Psychiatric/Mental Health (1)
NUR 4766 Critical Care (2)
NUR 4948L Preceptorship (3)

In addition to the requirements listed above, a minimum of 10 credits in upper level electives including exit requirements will be required for graduation. Planning with an academic advisor prior to enrollment in upper-level electives is strongly recommended.

Nursing Courses - Registered Nurse Sequence

(3 semesters)

NUR 3113 Culture of Nursing (2)
NUR 3114 Introduction to Clinical Judgement (3)
NUR 3064C Health Assessment Across the Life Span (3)
NUR 4765C Rehabilitation Across the Life Span (2)
• Program of Study at a Florida Community/Junior College or SUS School for Students Planning to Transfer to USF (State Mandated Common Prerequisites)

The University and the College of Nursing work closely with the community colleges within the 15 county 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. A student who 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 X085C 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, SVC 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, SVC 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.
NUR 3284C 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 - XMW (3)
PR: NUR 3113 or CL. 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 4041 CULTURE IN NURSING PRACTICE (2)
PR: NUR 3113 or CL. 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 CL. An exploration of the research process. Emphasis on identification of researchable nursing problems and evaluation of research that is applicable to nursing practice.

NUR 4194 AN INTERDISCIPLINARY PERSPECTIVE ON HIV DISEASE - XA - XLW - XMW (3)
PR: Concurrent with NUR 4216L or NUR 4636. Nursing Majors. Focuses on adults with health problems related to activity/exercise and cognitive/perceptual health patterns. Critical thinking is used to analyze the effects of changes in health status.

NUR 4216L CLINICAL PRACTICE IN ADULT HEALTH II (3)

NUR 4245 WELLNESS: HEALTH PROMOTION AND MAINTENANCE IN NURSING (2)
PR: Concurrent with NUR 4216L. Nursing Majors. Provides an interdisciplinary perspective on 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.

NUR 4252 LEADERSHIP/MENTAL HEALTH (2)

NUR 4256L CLINICAL PRACTICE IN PSYCHIATRIC/MENTAL HEALTH (1)
PR: Concurrent with NUR 4245, 4256, 4263L. 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.

NUR 4616 FAMILY HEALTH (4)

NUR 4616L CLINICAL PRACTICE IN FAMILY HEALTH (3)
PR: Concurrent with NUR 4216L, 4261L, 4263L. Nursing Majors. Includes therapeutic interventions for childbearing and child rearing families within a variety of settings.
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 graduate 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 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, Health Education, Maternal and Child Health, 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 specific information, 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 4841 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 4854 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 nontraditional and diverse backgrounds. The Dean serves as the Director of Community 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, Internship and Externship Placement 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, a mathematical reasoning course, and a four-week field training encampment between sophomore and junior years. The two-year program gives 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, mathematics reasoning course (if not already completed), 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 Professor of Aerospace Studies.

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 an English composition course. Scholarship recipients in the final two years of the program are eligible for the Professional Officer Course Incentive (POCI) and the monthly $150 tax-free stipend. Qualified POCI students receive up to $2,000 a year which covers tuition, fees, and books. Those interested in more information about scholarship criteria should contact the AFROTC Department.

Students with interest in enrollment in the four-year or two-year programs can begin registration procedures through the ROTC office in HMS 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.

AFROTC phone number is (813) 974-3367.

Aerospace Studies Faculty

Professor: Lt Col Jan T. Kinner; Assistant Professors: Capt Michael H. DeMoully, Maj Jeffrey C. Randall, Maj James E. Tusing.

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 1126 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 today.

AFR 2001 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 once per week for 1 and 1/2 hours. Concentrates on motivational physical fitness, healthy lifestyle and cadet espirit.

AFR 2130 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 WWII 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 3220 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 student’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 continuation of the study of national security forces in 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 six-week field training course, and the Advanced Course. The 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 duty, reserve, 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. Enrolment 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 six-week field training course at the Summer Advanced Camp.

Adventure 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. Adventure training is also available during the academic year. Other training includes survival skills, hand-to-hand combat, rappelling, escape and evasion, 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 six-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 Army 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:* MAJ Paul McCoy, CPT James McFadden, MSG Kevin Bates, MSG Michael Jones.

**Military Science Courses**
Students not attending on an Army Scholarship may take the 100 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**
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**
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**
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**
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**
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.

**MIS 3302 SMALL UNIT OPERATIONS**
Pre: 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**
Pre: Permission of Department. Improves cadet proficiency in those military subjects necessary to meet minimum
MIS 4410 ARMY AS A PROFESSION

PR: Permission of Department. Designed to prepare cadets for duty as commissioned officers. Instruction centers around professional training and includes the military justice system, military administration, the Officer Professional Management System, international laws of war, and principles of management/leadership.

MIS 4930 ADVANCED DIRECTED STUDY AND RESEARCH

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 offered to aid in construction and validation of tests used in classes. Survey design and data analysis are available for research purposes. Test scoring and analysis by machine are provided. This office also coordinates the student assessment of instruction process.
3. Credit-By-Examination: The College-Level Examination Program (CLEP) is administered through this office. Information on other programs such as the Advanced Placement Test (APT) is available.
4. College Level Academic Skills Test (CLAST): This office, in addition to administering the CLAST, implements many of the rules and policies of the College Level Academic Skills Program (CLASP).

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. The 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, intellectual disciplines, approaches to the sciences, arts and humanities, multiculturalism, and major works and major issues. A Senior Thesis is the culmination of the Honors experience. (Course descriptions appear later in the catalog.) Students also complete six semester hours of English, six semester hours of Mathematics, and four to eight 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 3.50 high school GPAs and 1270 SAT or 29 ACT scores. Many scholarships are available for Honors students.

University Honors Program-Two Year Track students take four Honors courses that include: inquiry into major works and major issues, a Senior Thesis and an elective chosen from among Program offerings. Students also complete four to eight hours of a foreign language (on the college level) which may have been taken prior to enrollment at USF. Completion of the Honors core courses satisfies USF Exit Requirements. Enrolling in University Honors-Two Year Track does not increase academic work-load or the number of credits needed to graduate.

Potential University Honors Program-Two Year Track students are actively recruited, but any interested student who feels that he/she is qualified may request admission. Student typically have 3.50 college GPAs and 1270 SAT or 29 ACT scores. Many scholarships are available for Honors students.

Departmental Honors Programs are available in selected departments that wish to offer Honors-level work for superior students majoring in their disciplines. Requirements vary according to department, but all require the completion of a Thesis. Students enrolled in both University and Departmental Honors are required to complete only one Thesis.

Admission to University Honors is determined by the University Honors Committee and the Director of Honors; admission to departmental Honors is determined by the individual department. Students who satisfactorily complete Honors and graduate with at least an overall GPA of 3.3 and a USF GPA of 3.3 shall be identified as Honors Program Graduates at Commencement as well as on their diplomas and transcripts.

Honors Program Faculty

Director: Stuart Silverman (Instructors for the Honors courses are recruited from among the University's outstanding teacher-scholars).

Honors Program Courses

IDH 2010 ACQUISITION OF KNOWLEDGE

PR: Admission into the Honors Program. An appreciation of the problems of how human understanding proceeds through operations such as perception, classification, and inference, among others, as well as the open philosophic questions behind these operations.

IDH 3100 ARTS/HUMANITIES HONORS

PR: IDH 2010. An introduction to western arts and letters from the perspectives of three historical periods (classicism, romanticism, and modernism), the relationship of ideas to art, the similarities among the arts of a given period, and important differences between periods.

IDH 3350 NATURAL SCIENCES HONORS

PR: IDH 2010. An exploration of current knowledge concerning fundamental principles in the Sciences, their potential for application and attendant ethical and philosophical questions.

IDH 3400 SOCIAL AND BEHAVIORAL SCIENCES HONORS


IDH 4101 INTERNSHIP IN APPLIED ETHICS

PR: IDH 2010. This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.
IDH 4000 HONORS PROGRAM SEMINAR: MAJOR WORKS/MAJOR ISSUES
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
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
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 Campust Honors Program courses satisfy the Liberal Arts Exit Requirements. Scholarships are available to those admitted to the program.

IDH 4000 HONORS PROGRAM SEMINAR: MAJOR WORKS AND MAJOR ISSUES
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 2 semesters.

IDH 4970 HONORS THESIS
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 and Korea. 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.

Off-Campus Term Program
The Off-Campus Term (OCT) Program offers a program of experience-study in which students are encouraged to spend at least one semester engaged in individual educational pursuits away from the University campus. Students are offered a wide variety of opportunities for self-designed and self-implemented experience for academic credit. For example, students may become involved in social action projects, international travel or study, independent research-study, work, internship projects, or other personalized projects all off campus and all for academic credit anywhere in Florida, the U.S., or the world. Academic credit is earned by students while engaged in off-campus activities through the OCT Program. The number of hours of credit varies according to student interest and proposed activities. Students may enroll in a variety of projects and pay fees for variable hours of credit from 1 to 15 in a term. Academic credit activities are designed around the basic core curriculum experiences for the most part and projects resulting in academic credit are designed by the student and supervised by OCT or other appropriate faculty. Credits may be earned which apply toward general education and elective requirements. Credit may be earned in the major field of study in some cases.

The OCT Program has a variety of course projects designed specifically for implementation using the community and its people as the learning resource. Examples of such offerings are one to four credit hour projects (each) in (1) community studies, (2) intercultural studies, (3) law and society, (4) contemporary health problems, (5) volunteers and society, (6) international relations, (7) and internship/volunteer work project. Participation in the OCT Program for a total of 9 hours during a Summer term or terms satisfies the summer enrollment for those affected by this requirement.

Students may participate in the OCT Program anytime beginning with the freshman year through the final semester prior to graduation. Good standing at the University and a 2.0 GPA is required for acceptance into the Program. The OCT Program operates throughout the entire year and students are urged to plan their off-campus experiences during the Fall and Spring semesters to avoid the traditional rush common to the Summer term. Early action is urged since quotas are placed on the number of participants accepted each term.

Off-Campus Term Faculty

Director: TBA

Off-Campus Term Courses
IDS 4900 DIRECTED READINGS (1-4)
PR: OCT Program approval. Open to all students approved for OCT Program. Provides students with community related readings. May be repeated up to 8 credit hours.

IDS 4910 DIRECTED RESEARCH (1-4)
PR: OCT Program approval. To provide students with community related research experience in areas of specific interest. May be repeated up to 8 credit hours.

IDS 4942 OFF-CAMPUS TERM SOCIAL ACTION PROJECT (1-4)
PR: OCT Program approval. May be repeated up to 4 credit hours. (S/U only.)

IDS 4943 OFF-CAMPUS TERM SPECIAL PROJECT (1-2)
PR: OCT Program approval. (S/U only.)

IDS 4955 OFF-CAMPUS TERM INTERNATIONAL PROGRAM (1-2)
PR: OCT Program approval. (S/U only.)

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 3994 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 - 1997/98 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 a colon indicate concurrent lecture and laboratory courses taught as a unit.

PHY 3040, 3041L GENERAL PHYSICS & LABORATORY (3:1)

Credits separated by commas indicate unified courses offered in different semesters.

AMI 2010, 2020 AMERICAN HISTORY I, II (4,4)

The abbreviation "var." also indicates variable credit.

MAT 7912 DIRECTED RESEARCH (var.)

The following abbreviations are utilized in various course descriptions:

'PR' Prerequisite
'C1' With the consent of the instructor
'C2' 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 filfills part of the Liberal Arts General Education Requirement for English
FA Course filfills part of the Liberal Arts General Education Requirement for Fine Arts
HP Course filfills part of the Liberal Arts General Education Requirement for Historical Perspectives
NS Course filfills part of the Liberal Arts General Education Requirement for Natural Sciences
AF Course filfills part of the Liberal Arts General Education Requirement for African, Latin American, Middle Eastern, or Asian Perspectives
QM Course filfills part of the Liberal Arts General Education Requirement for Qualitative Methods
SS Course filfills part of the Liberal Arts General Education Requirement for Social Sciences
XLW Course filfills part of the Liberal Arts Exit Requirement for Literature and Writing
XMW Course filfills 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
African 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: Engineering
Art: Fine Arts
Art Education: Education
Astronomy: Arts and Sciences
Bachelor of Independent Studies: Engineering
Basic and Interdisciplinary: Arts and Sciences
Biology: Engineering
Business and Office Education: Arts and Sciences
Chemistry: Engineering
Chemical Engineering: Arts and Sciences
Chinese (Language): Arts and Sciences
Civil and Environmental Engineering: Engineering
 Classics: Business Administration
 Common Body of Knowledge: Arts and Sciences
 Communication: Arts and Sciences
 Communication Sciences and Disorders: Engineering
 Computers in Education: Engineering
 Computer Science and Engineering: University-wide Courses
 Computer Service Courses: Arts and Sciences
 Cooperative Education: Business Administration
 Criminology: Engineering
 Dance: Fine Arts
 Early Childhood Education: Education
 Economics: Business Administration
 Electrical Engineering: Engineering
 Elementary Education: Education
 English: Arts and Sciences
 English Education: Education
 Environmental Science & Policy: Arts and Sciences
 Finance: Business Administration
 Fine Arts Interdisciplinary: Fine Arts
 Foreign Language Education: Education
 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
 Human 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: Business Administration
 Marine Science: Arts and Sciences
 Marketing: Arts and Sciences
 Mass Communications: Arts and Sciences
 Mathematics: Arts and Sciences
 Mathematics Education: Arts and Sciences
 Measurement and Research: Arts and Sciences
 Mechanical Engineering: Engineering
 Medical Technology: Arts and Sciences

USF
Cross-Listing of Departments and Programs

Alphabetically by College, Department/Program

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<th>College/Department/Program</th>
<th>University-wide Courses</th>
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| College of Business Administration | ACG, TAX |                       |
| Common Body of Knowledge (Graduate) | GEB |                       |
| Economics                             | ECO, ECP, ECS |                       |
| Finance                               | FIN, REE, RMI |                       |
| General Business Administration       | BUL, GEB, MAN |                       |
| Information Systems & Decision Sciences | CGS, GEB, ISM, QMB |                       |
| Management                            | MAN |                       |
| Marketing                             | MAR |                       |
| College of Education                  | ADE, BTE, DEC, EIA, EIV, EYV, EST |                       |
| Adult Education                       | ARE, EDG |                       |
| Business and Office Education          | BTE |                       |
| Computers in Education                | EME |                       |
### Content Specializations
- ARE, FLE, MAE, SCE, SED, SSE
- ARE, EDE, EDG, EDS, HLP, LAE, MAE, RED, SCE, SSE
- LAE
- FLE
- EDH
- HUM
- EIA, EIV, EVT
- EDF
- MUE
- HLP, PEL, PEM, PEN, PEQ, PET
- HLP, HSC, PEP, PEQ, PET

### Elementary Education
- EDF, IDS, MHS, SDS, SLS, SPS
- RED
- SCE
- SDE
- EDG, EED, EEX, EGI, ELD, EMR, EPH
- EGN
- ECH
- CEG, CES, CGN, CWR, EMA, ENV, TTE
- CAP, CDA, CEN, CIS, COP, COT, COT, EEL, ESI
- CGS, COP, ETG, ETI
- EEL, ELR
- EIN, ESI
- EAS, EML
- ARH, ART, FIL, PGY
- DAA, DAE, DAN
- MUC, MUE, MUG, MUH, MUL, MUN, MUO, MUS, MUT, MVB, MVJ, MKV, MVP, MVS, MVW
- MUE
- THE, TPA, TPP
- HUN, NUR

### Cross-Listing Departments/Programs

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</table>
ENV  Civil Engineering and Mechanics
ENY  Biology
EPH  Special Education
ESI  Industrial & Management Systems Engineering
ETG  Computer Service Courses
ETI  Computer Service Courses
EUH  History
EUS  International Studies Program
EVT  Industrial & Technical Education
EXP  Psychology
FIL  Art, Mass Communications
FIN  Finance
FLE  Foreign Language Education, French (Language)
FOL  General Foreign Languages
FRE  French (Language)
FRW  French (Language)
GEA  Geography
GEB  Common Body of Knowledge, General Business Administration
GEO  Geography
GER  German (Language)
GET  German (Language)
GEW  German (Language)
GEY  Gerontology, Psychology
GLY  Geology
GMS  Medical Sciences, Medicine
GRE  Greek (Classics), Religious Studies
GRK  Greek (Language)
GRW  Greek (Classics)
HBR  Hebrew (Language)
HEB  Religious Studies
HIS  History
HLP  Elementary Education, Physical Education - Elective
HSC  Public Health
HUM  Africana Studies, Bachelor of Independent Studies, Humanities
HUN  Nursing
HUS  Gerontology
IDH  Honors Program
IDS  Bachelor of Independent Studies, Cooperative Education, Fine Arts Interdisciplinary, Honors Program, Liberal Studies, Off-Campus Term
INP  Psychology
INR  Africana Studies, International Studies, Political Science
ISC  Bachelor of Independent Studies
ISM  Information Systems & Decision Sciences
ISS  Africana Studies, Bachelor of Independent Studies, International Studies, Interdisciplinary Social Sciences
ITA  Italian (Language)
ITW  Italian (Language)
JOU  Mass Communications
JPN  Japanese (Language)
LAE  Elementary Education, English Education
LAH  History
LAS  International Studies
LAT  Latin (Classics)
LIS  Library and Information Science
LIT  English, Women's Studies
LNW  Latin (Classics)
MAA  Mathematics
MAC  Mathematics
MAD  Mathematics
MAE  Elementary Education, Mathematics, Mathematics Education
MAN  General Business Administration, Management
MAP  Mathematics
MAR  Marketing
MAS  Mathematics
MAT  Mathematics
MCB  Biology
MET  Geography
MGF  Mathematics
MHF  Mathematics
MHS  Psychological & Social Foundations of Education
MIS  Military Science (Army ROTC)
MLS  Medical Technology
MMC  Mass Communications
MTG  Mathematics
MUC  Music
MUE  Elementary Education, Music Education
MUG  Music
MUH  Music
MUL  Music
MUN  Music
MUO  Music
MUS  Music
MUT  Music
MVB  Music
MVJ  Music
MVK  Music
MVP  Music
MVS  Music
MW  Music
MWJ  Music
NGR  Nursing
NUR  Nursing
OCE  Geology, Marine Science
OCC  Geology, Marine Science
OCG  Geology, Marine Science
OCM  Marine Science
ORI  Communication
PAD  Public Administration
PCB  Biology
PEL  Physical Education - Elective
PEM  Physical Education - Elective
PEN  Physical Education - Elective
PEP  Physical Education - Professional
PEQ  Physical Education - Professional
PET  Physical Education - Elective, Physical Education - Professional
PGY  American Studies, Art, Mass Communications
PHH  Philosophy
PHI  Africana Studies, Philosophy, Women's Studies
PHM  Africana Studies, Philosophy, Women's Studies
PHP  Philosophy
PHY  Physics
PHZ  Physics
POL  Polish (Language)
POR  Portuguese (Language)
POS  Political Science, Women's Studies
POT  Political Science
PPE  Psychology
PSB  Psychology
PSY  Psychology
PUP  Africana Studies, Political Science, Women's Studies
PUR  Mass Communications
QMB  Information Systems & Decision Sciences
RCS  Rehabilitative Counseling
REA  English
RED  Elementary Education, Reading Education
REE  Finance
REL  Religious Studies, Women's Studies
RMI  Finance
RTO  Mass Communications
RUS  Russian (Language)
RUT  Russian (Language)
SOC  Elementary Education, Science Education
SOS  Psychological & Social Foundations of Education
SLS  Psychological & Social Foundations of Education
SOP  Psychology, Women's Studies
SOW  Social Work
SPA  Communication Sciences & Disorders
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. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. 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 _000-_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
F. 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 33620-5320, 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 (904) 486-6402 or Suncom 278-6402.
Administration of State Universities

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| Assistant Vice President, Faculty Affairs | Paula N. Knaus |
| Assistant Vice President, Health Affairs | John P. Liston |
| Assistant Vice President, Medical Affairs | Joannm. Koehler |
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| Library/Medical Center Personn | Beverly Shattuck |
| Public Affairs | Michael Hoad |
| Development | Rankin Harris |

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| Associate Dean for Academic Affairs | TBA |
| Associate Dean for Administration | Joannm. Koehler |
| Associate Dean for Clinical Affairs | Peter J. Fabri |
| Associate Dean for Continuing Medical Education | TBA |
| Associate Dean for Faculty Affairs | Anthony J. Reading |
| Associate Dean for Faculty Practice Plan | Richard P. Hoffmann |
| Associate Dean for Medical Education | Robert M. Nelson, Jr. |
| Associate Dean for Research and Graduate Affairs | Joseph J. Krzanowski, Jr. |
| Associate Dean for Student Affairs | Randolph Manning |

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| Associate Dean, Graduate Studies (Interim) | Linda E. Moody |
| Associate Dean, Student Affairs (Interim) | Patricia A. Burns |
| Director: | |
| Nursing Learning Resource Center | Debra A. Danforth |
| Research | Linda E. Moody |

**College of Public Health**

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| Executive Associate Dean | Phillip J. Marty |

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| Vice Provost | Catherine J. Batsche |
| Vice Provost | Tennyson J. Wright |
| Vice President for Research | George R. Newkome |
| Associate Provost | Jean R. Linder |
| Associate Vice President | Bernard A. Mackey |
| Associate Vice President | Denys Belflo |
| Assistant Vice President | Carol Rolf |
| Directors: | |
| Academic Budgets | Gary M. Stephens |
| Academic Computing | J. Anthony Llewelyn |
| Academic Programs | Kathleen M. Moore |
| Center for Teaching Enhancement | James A. Eison |
| Collective Bargaining | Philip Smith |
| Distance Learning | Andrew J. Barrett |
| Economic Development (Interim) | Richard Streeter |
| Florida Institute of Oceanography | John C. Ogden |
| Florida Policy Exchange | Larry Polivka |
| Center on Aging | Juel H. Smith |
| Institute on Black Life | James A. Mortimer |
| Institute on Aging | Mark T. Orr |
| International Affairs Center | James B. Heck |
| Public Broadcasting | Samuel Fustukjian |

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| Associate Dean | Mark Ammen |
| Associate Dean | Marilyn Myerson |
| Associate Dean | DianetesteRake |
| Assistant to the Dean | Carmen S. Burton |
College of Business Administration

Dean
ROBERT L. ANDERSON

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Economics
Finance
Information Systems/Decision Sciences
Management
Marketing

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ROBERT M. KEITH
Center for Economic and Management Research
I. HURST
Small Business Development (Acting)
TBA
Center for Economic Education
DICK J. PUGLISI
Institute For Banking and Finance
JAMES L. PAPPAS
Institute for Information Systems Management
PAUL H. CHENEY
MBA Programs
STEVENA. BAUMGARTEN

College of Education

Dean
STEVE PERMUTH

Associate Dean, Administration
EDWARD GLICKMAN

Associate Dean, Programs
CONSTANCE HINES

Asst. Dean, Community Relations
DICK J. PUGLISI

Asst. Dean, Student Academic Services
JANE YOUNG

Chairpersons:
Adult and Vocational Education
WILLIAM BLANK
Childhood/Language Arts/Reading Education (Interim)
FRANK FRESHOUR
Educational Leadership (Interim)
ARTHUR SHAPIRO
Educational Measurement/Research
BRUCE HALL
Music Education
CHRISS DOANE
Psychological and Social Foundations
MICHAEL CURTIS
Secondary Education
H. EDWINSTEINER
Special Education
JAMES PAUL

Directors:
David C. Anchin Center for the Advancement of Teaching
WILLIAM KATZENMEYER
Center for Arts & Human Development
BARBARA KAZANIS
Center for Child & Family Studies
JAN McCARTHY
Centers of Emphasis
JACK GRISHAM
Center for the Study of Migrant Education
ANN CRANSTON GINGRAS
Center for the Study of Technology in Physical Activity
LOUIS BOWERS
Children's Center
JAMES W. BARNARD
College Reach-Out Development
JIMMY WEAVER
Educational Research Center for Child Development
JOE TOMANO
Florida Center for Instructional Technology (Acting)
MARK CASERTANO
Graduate Studies
ANN BARRON
Grants & Contracts
CONSTANCE HINES
Greater Tampa Bay Special Education Consortium
LILIAN BAUTISTA-MYERS
Institute for Instructional Research and Practice
MICHAEL CHURTON
Institute for At-Risk Infants, Children and Youth and their Families
CAROLYN LAVELY
Institute for Student Reform, Integrated Services, Child Mental Health and Educational Policy
CAROLYN LAVELY
National Resource Center for Middle Grades/High School Education
HOWARD M. KNOFF
Program Review
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School Management Institute
JUDY WILKERSON
School of Physical Education, Wellness, & Sports Studies
KAROLYN SNYDER
South Florida Educational
Planning Council
Stavros Center for Free Enterprise and Economic Education
Student Academic Services
SunCoast Area Teacher Training Program (SCAT)
SunCoast Area Teacher Training Center for Excellence
Research Program
Technology Services & Resources
Teacher Evaluation & Assessment Center
Upward Bound

College of Engineering
Dean
Associate Dean for Academics
Associate Dean for Computing Services
Associate Dean for Research
Assistant Dean
Chairpersons:
Chemical Engineering
Civil and Environmental Engineering
Computer Science and Engineering
Electrical Engineering
Industrial and Management Systems Engineering
Mechanical Engineering
Directors:
Coordinator of Advising
Center for Microelectronics Research
Center for Urban Transportation Research
College of Engineering Facilities Development
Lakeland
Minority Engineering Programs
Southern Technology Applications Center

College of Fine Arts
Dean
Associate Dean, Academic Affairs
Associate Dean, Administrative Affairs
Chairpersons:
Art
Dance
Music
Theatre
USF Contemporary Art Museum
Directors:
Development Institute for Research in Art/Graphicstudio
SYCOM
Coordinator:
Advising
Fine Arts Events Production

Florida Mental Health Institute
Dean
Associate Dean
Assistant Dean
Director, Administration
Chairpersons:
Aging & Mental Health
Child & Family Studies
Community Mental Health
Mental Health Law & Policy
Directors:
State Liaison

School of Architecture and Community Design
Dean
School of Continuing Education/Educational Outreach
Dean (Interim)
Director:
Administration
Community Music
Conferences and Institutes
English Language Institute
Executive MBA
Florida Center for Writers
Institute of Government
Mediation Institute
MBA Program for Physicians
Mediation Institute
Mediation Institute
Overseas Study Programs
Special Programs/MBA Program

College Liaison:
Arts and Sciences
Business Administration Education
Engineering
Fine Arts FMHI

Graduate School
Dean (Interim)
Faculty Assistant

Undergraduate Studies
Dean
Associate Dean
Assistant Dean for Special Programs
Director, Evaluation and Testing
Air Force ROTC
Army ROTC
### ORGANIZATION AND PERSONNEL

**USF at Sarasota**

<table>
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<tr>
<td>Dean and Executive Officer</td>
<td>David P. Schenck</td>
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<td>Associate Dean</td>
<td>Janna C. Merrick</td>
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<td>Campus Librarian</td>
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<td>Director, Administrative Affairs</td>
<td>Lynda Block Hill</td>
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<td>Director, Police Services for Regional Campuses</td>
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<td>Nancy E. Ferraro</td>
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**New College of USF**

| Chairpersons:                                 |                                           |
| Humanities                                    | Magdalena Carrasco                       |
| Natural Sciences                              | Leodemski                                |
| Social Sciences                               | Gordon D. Bauer                          |

**USF at St. Petersburg**

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<td>Associate Dean, Academic Affairs</td>
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<td>Director, Administration &amp; Finance</td>
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<td>F. Landon Greaves</td>
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<td>Director, Student Affairs</td>
<td>Stephen Ritch</td>
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**USF at Lakeland**

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<td>Yvonne L. Ralston</td>
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<td>Assistant Dean, Academic Services</td>
<td>Patricia Martini-Clark</td>
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<tr>
<td>Director, Business, Finance, and Auxiliary Services</td>
<td>Anne Phillips</td>
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### ADMINISTRATIVE SERVICES

**Vice President**

| Associate Vice President                      | Albert C. Hartley                        |
| Director, Auxiliary Services                  | Rickardc Fender                          |
| Director, Environmental Health & Safety       | Jeffrey A. Mack                          |
| Director, Facilities Planning & Construction  | Seldon L. Carsey                         |
| Director, Finance & Accounting                | Stevenw Gift                             |
| Director, Physical Plant                      | Eric L. Walden                           |
| Director, Public Safety                       | Adrian Cuarta                            |
| Director, Purchasing (Acting)                 | Paul A. Urajich                          |
| President, Sun Dome, Inc.                     | Tom Di Bella                             |
|                                               | Michael Lapan                            |

### BUDGETS, HUMAN RESOURCES AND INFORMATION TECHNOLOGY

**Vice President**

| Associate Vice President, Equal Opportunity Affairs | Laureyt S. Stryker                        |
| Sr. Director, Organization Development & Training | Edouard L. Piou                           |
| Director, Central Florida Regional Data Center   | Claire S. Robinson                        |
|                                               | John Jackson                              |

**Directors**

- Human Resources: Trudie E. Frecker
- Information Technologies: George W. Ellis
- Institutional Research & Planning: Jon W. Blades
- Organization Development & Training: Sandra M. Cooper
- University Budgets: Paula Varnam Fussell
- Victims' Advocacy: Mary Samuel Reid

### RESEARCH

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| Executive Assistant, Finance                    | Rhonda Hendrix                            |
| President, Research Foundation                  | Linda Phayes                              |
| Executive Director, Research Foundation         | George E. Newkome                         |
| Director, Comparative Biomedicine               | Robert E. Engelman                        |
| Director, Compliance Services (Acting)          | Richard Walker                            |
| Director, Patents & Licensing                   | Kenneth G. Preston                        |
| Director, Pharmaceutical Studies (Acting)       | Richard Walker                            |
| Director, Sponsored Programs (Acting)           | Priscilla Pope                            |

### STUDENT AFFAIRS

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| Executive Assistant, Student Life & Wellness    | Wilma J. Henry                            |
| Associate Vice President for Enrollment Planning & Management | Bruce A. Bursack                       |
| Assistant Vice President for Academic Support & Achievement | Thermad Benton                           |
| University Registrar                            | Angela DeBose                             |
| Interim Assistant Vice President & Director, Counseling Center | Wilamanton                                |
| Associate Dean of Students                      | Sylvia Saltier                            |
| Director, Academic Advising                     | Mark Rubinstein                           |
| Director, Admissions                            | Marsha Logan                              |
| Director, Adult & Transfer Student Services     | Andrew Honker                             |
| Director, Campus Recreation                     | Drema K. Howard                           |
| Director, Career Resource Center                | Leonard Guide                            |
| Director, Financial Aids                        | Joanne Risacher                           |
| Director, Housing (Interim)                     | David Austerell                           |
| Director, International Student Center          | John Holloway                             |
| Director, Judicial Services                     | Luis Vistot                              |
| Director, Marshall Center                       | Joan Holmes                              |
| Director, McNair Scholars Program               | Cindy S. Vistot                          |
| Director, New Student Orientation               | Mack Davis                               |
| Director, Project Trust/PEP                     | Janie Reed                                |
| Director, Student Academic Support Services     | Maria Anderson                            |
| Director, Student Health Services               | Jay Lawrence                             |
| Director, Student Publications                  | Reba Garth                               |
| Director, Student Support Services              | Robert Armstrong                         |
| Coordinator, Student Disability Services        | Meredith Nickles                         |
| Coordinator, Veteran Affairs                    |                                            |
### UNIVERSITY ADVANCEMENT

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Vice President</td>
<td>KATHY L. STAFFORD</td>
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<tr>
<td>Associate Vice President, Alumni Affairs</td>
<td>LORENTAYLOR</td>
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<td>DONNA PARRINO</td>
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<td>Corporate &amp; Foundation Relations</td>
<td>RON SHERMAN</td>
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<td>GREG FULTON</td>
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<td>DICK GRIFFIN</td>
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<td>Regional Director of Development</td>
<td>STEVE BRAGIN</td>
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REFERENCES
FOURAKER, FIRESTONE, GREGORY FORD, FOULIS, PHILIP
FLEURY, KATHERINE S., FLYNN, HEATHER A., VISITING INSTRUCTOR
FRANQUES, JOHN
FRIEDL, FRIEDMAN, BERNARD, FRIEDMAN, JENNIFER
FRIES, DAVID P., RESEARCH ASSISTANT IN (MARINE BIOLOGY)
FROELICH, RALPH O., ASSOCIATE PROFESSOR (MUSIC ARTS)
FRY, BARBARA J., ASSOCIATE PROFESSOR (CHILDHOOD EDUCATION)
FU, EUGENE S., ASSISTANT PROFESSOR (ANESTHESIOLOGY)
FUJIDGE, WILLIAM G., JR., ASSOCIATE PROFESSOR (COMMUNICATIONS)
FUHRMAN, THOMAS H., ASSOCIATE PROFESSOR (ANESTHESIOLOGY)
FULLER, ROBERTA A., ASSOCIATE PROFESSOR (SECONDARY EDUCATION)
FUTUKIJAN, SAMUEL Y., FACULTY ADMINISTRATOR (LIBRARIES)
FUTCHE, JANA S., UNIVERSITY LIBRARIAN (UNIVERSITY LIBRARIES)
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<th>Name</th>
<th>Title</th>
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<tr>
<td>STRAYER, HEIDI J.</td>
<td>Assistant Professor (Computer Science and Engineering)</td>
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<td>STRICKER, RICHARD F.</td>
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<td>STROTMAN, W. ROBERT</td>
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</tbody>
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**UNIVERSITY OF SOUTH FLORIDA - 1993-94 UNDERGRADUATE CATALOG**

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