Florida Institute of Technology

UNIVERSITY COLLEGE CATALOG ADDENDUM
Spring 2008 – Summer 2008

The *University College Catalog* addendum has been produced to transition from the existing *University College Catalog* dated Summer 2006 through Fall 2007 to the next published catalog Fall 2008 through Summer 2009. The next catalog will be delivered early in 2008.

This addendum contains only updates to the contact information for each site, and changes to course descriptions and programs of study that have been approved effective Spring Semester 2008. It does not contain information that has remained unchanged since the last printed edition of the catalog.

Clifford R. Bragdon, Ph.D., AICP, Dean
Theodore R. Richardson III, Ed.D., Associate Dean

Section 1: Extended Studies

Page 1: Under "Introduction:"

Florida Institute of Technology does not discriminate on the basis of race, gender, color, religion, creed, national origin, ancestry, marital status, age, disability, sexual orientation, Vietnam-era veterans status or any other discrimination prohibited by law in the admission of students, administration of its educational policies, scholarship and loan programs, employment policies, and athletic or other university-sponsored programs or activities.

Page 1: Under "The University:"

Florida Institute of Technology is an accredited, coeducational, independently controlled and supported university. It is committed to the pursuit of excellence in teaching and research in the sciences, engineering, high-tech fields, business, psychology, liberal arts, aviation and related disciplines, as well as providing the challenges that motivate students to reach their full academic and professional potential. Today, over 5,100 students are enrolled, equally divided between undergraduate and graduate programs. More than 3,600 students attend class on the Melbourne campus and more than 1,400 at Florida Tech's off-campus sites. Florida Tech offers 166 degree programs in science, engineering, aviation, business, education, humanities, psychology and communication. Doctoral degrees are offered in 22 disciplines, while 76 master's disciplines are offered.

Page 3: Continued from under "The University:"

University College consists of four divisions that include **Applied Research**, **Distance Learning**, **Extended Studies** and **Professional Development**. Extended Studies began in August 1972 as "Off-Campus Programs," when 42 students enrolled in a master's degree program in electrical engineering at the Naval Air Test Center, Patuxent River, Maryland. From that modest beginning, the graduate programs have grown to more than 1,425 students per year enrolled in 35 degree programs. Extended studies programs that benefit employees of industry were added in 1976 when in-plant courses started with several firms and the municipal government in St. Petersburg, Florida, and with Martin Marietta Aerospace in Orlando, Florida.

Florida Tech's extended studies and distance learning programs are conducted in a very traditional manner with admission and graduation standards the same as those required on campus. Each site is staffed with at least one full-time terminal degree faculty member. Most courses are taught by instructors possessing terminal degrees. Curricula and course content are tailored to meet the needs of the students and their employers, while maintaining the highest possible academic quality and integrity. Class times and locations are selected for the convenience of the students. The conduct of administration is made as effective and efficient as possible by on-site staff and University College in Melbourne, which was established for that sole purpose. Since the 1972 beginning, nearly 16,000 Florida Tech master's degrees have been conferred on off-campus candidates representing the military services, federal and local government employees and a wide variety of businesses and industries.

Degree programs available in Distance Learning can be found on our Web site at http://uc.fit.edu/dl.

Page 3: Under "History:"
More than 45,000 degrees have been earned by students at Florida Tech.

Page 11: Under "Tuition and Fees Payment Policy"
Students are assessed tuition and fees based on the locations and programs in which they are enrolled and the degrees being pursued. Students enrolled and pursuing degrees on the Melbourne campus are assessed the Melbourne tuition and fees.

Students enrolled and pursuing degrees through University College are assessed the University College tuition and fees. Students enrolled in programs and pursuing degrees as part of a partnership arrangement with another entity are assessed the tuition and fees approved by the partnership.

It should be noted that the tuition listed in the current *University College Catalog* (Summer 2006–Fall 2007) is no longer valid and subsequent printings will not contain that information. Tuition and fees information can be found online at http://uc.fit. edu/es/academics/tuition.html. Policies regarding tuition and fees can be found at http://www.fit.edu/registrar/paymentpolicy.html.

Page 11: Under "Library Information Network (Link)"
To access Florida Tech's Library Information Network (LINK) and its many valuable resources and features, go to the Florida Tech home page (www.fit.edu) "Library" option or directly to http://www.lib.fit.edu/pubs/distancelearning/. Some databases and services will require the remote user to input an identification (ID) number and an Evans Library four-digit personal identification number (PIN).

Page 22: Under "Complaint Resolution Process; number 3
Sherri Rummel, M.A., PHR, Director, Human Resources and Title IX Coordinator

UPDATES BY SITE

These updates by site contain only changes to sites addresses and contact personnel, phone and fax numbers, names and e-mail addresses, and degree programs offered by the sites. Academic calendars show only the dates covered by this addendum. All other information may be found in the published *University College Catalog.*

Section 2: Aberdeen *(Page 26)*

http://uc.fit.edu/es/aberdeen

Academic Calendar

Spring 2008 (Jan. 7–April 18)

Nov. 12	Web Registration begins
Jan. 7	SPRING SEMESTER BEGINS
Jan. 11	Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Jan. 21	Holiday *(Martin Luther King Jr. Day)*
Feb. 18	Holiday *(Presidents Day)*
March 14	Last day to withdraw from a class with a final grade of W
April 4	Last day to file a Petition to Graduate for Fall Semester 2008
April 11	Last day of classes
April 14–18	Final Exams

Summer 2008 (April 28–Aug. 8)
March 10   Web Registration begins
April 28   SUMMER SEMESTER BEGINS
May 2   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
May 26   Holiday (*Memorial Day*)
July 4   Last day to withdraw from a class with final grade of W
July 4   Holiday (*Independence Day*)
Aug. 1   Last day of classes
Aug. 4–8   Final Exams

Fall 2008 (Aug. 25–Dec. 5)
July 7   Web Registration begins
Aug. 25   FALL SEMESTER BEGINS
Aug. 29   Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
Sept. 1   Holiday (*Labor Day*)
Oct. 13   Holiday (*Columbus Day*)
Oct. 31   Last day to withdraw from a class with a final grade of W
Nov. 11   Holiday (*Veterans Day*)
Nov. 27–28   Holiday (*Thanksgiving*)
Nov. 28   Last day of classes
Dec. 1-5   Final Exams

Section 3: Fort Lee *(Page 30)*

http://uc.fit.edu/es/ftlee

Office Administrator: Kristin Shreffler, kshreffler@fit.edu

Site has discontinued the eBusiness Concentration in the M.S. Management degree program and added the Transportation Management Concentration (code: 8408).

Also added the following statement: Florida Tech is certified to operate by the State Council of Higher Education for Virginia.

Academic Calendar

Spring 2008 (Jan. 7–April 18)
Nov. 12   Web Registration begins
Jan. 7   SPRING SEMESTER BEGINS
Jan. 11   Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
Jan. 21   Holiday (*Martin Luther King Jr. Day*)
Feb. 18   Holiday (*Presidents Day*)
March 14   Last day to withdraw from a class with a final grade of W
April 4   Last day to file a Petition to Graduate for Fall Semester 2008
April 11   Last day of classes
April 14–18   Final Exams

Summer 2008 (April 28–Aug. 8)
March 10   Web Registration begins
April 28   SUMMER SEMESTER BEGINS
May 2   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
May 26   Holiday (*Memorial Day*)
July 4   Last day to withdraw from a class with a final grade of W
July 4   Holiday (*Independence Day*)
Aug. 1   Last day of classes
Aug. 4–8   Final Exams

Fall 2008 (Aug. 18–Dec. 5)
July 7   Web Registration begins
Aug. 18   FALL SEMESTER BEGINS
Aug. 29   Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
Sept. 1   Holiday (*Labor Day*)
Oct. 13   Holiday (*Columbus Day*)
Oct. 24   Last day to withdraw from a class with a final grade of W
Nov. 11   Holiday (*Veterans Day*) Observed
Nov. 24–28   Holiday (*Thanksgiving*)
Nov. 28   Last day of classes
Dec. 1-5   Final Exams

Section 4: Hampton Roads *(Page 36)*

http://uc.fit.edu/es/hroads

Assistant Resident Administrator, Lenora Carpenter, Hampton Roads, Norfolk Naval Station

Staff Assistant, Lisa Dunaway, Fort Eustis, Hampton Roads

Administrative Secretary, Debra Sevigny, Fort Eustis, Hampton Roads

Site has discontinued the eBusiness Concentration in the P.M.B.A. and M.S. Management degree programs.

Also added the following statement: Florida Tech is certified to operate by the State Council of Higher Education for Virginia.

Academic Calendar

Spring 2008 (Jan. 7–April 18)
Nov. 12   Web Registration begins
Jan. 7   SPRING SEMESTER BEGINS
Jan. 11   Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
Jan. 21   Holiday (*Martin Luther King Jr. Day*)
Feb. 18   Holiday (*Presidents Day*)
March 14   Last day to withdraw from a class with a final grade of W
April 4   Last day to file a Petition to Graduate for Fall Semester 2008
April 11   Last day of classes
April 14–18   Final Exams

Summer 2008 (April 28–Aug. 8)
March 10   Web Registration begins
April 28   SUMMER SEMESTER BEGINS
May 2   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
May 26   Holiday (*Memorial Day*)
July 4   Last day to withdraw from a class with a final grade of W
July 4   Holiday (*Independence Day*)
Aug. 1   Last day of classes
Aug. 4–8   Final Exams

Fall 2008 (Aug. 25–Dec. 5)

July 7	Web Registration begins
Aug. 25	FALL SEMESTER BEGINS
Aug. 29	Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Sept. 1	Holiday (Labor Day)
Oct. 13	Holiday (*Columbus Day*)
Oct. 31	Last day to withdraw from a class with a final grade of W
Nov. 11	Holiday (*Veterans Day*)
Nov. 27–28	Holiday (*Thanksgiving*)
Nov. 28	Last day of classes
Dec. 1-5	Final Exams

Section 5: Melbourne *(Page 40)*

http://uc.fit.edu/es/melbourne

Site Director, Rhoda Baggs, Ph.D., rbaggs@fit.edu

Academic Calendar

Spring 2008

Jan. 2	Tuition and fees due for Spring Semester 2008
Jan. 7	CLASSES BEGIN (Monday)
Jan. 7–9	Financial Aid sign-in
Jan. 11	Last day to register or add a class
Jan. 18	Last day to file a Petition to Graduate for Summer Term 2008 without a late fee
Jan. 18	Last day to drop a class with full tuition refund and without receiving a grade of W
Jan. 21	Holiday (*Martin Luther King Jr. Day*)
Jan. 28	Registration for Summer Term 2008 begins
Feb. 4	Re-petition deadline for Spring Semester 2008 (for students who had petitioned for Fall Semester 2007)
Feb. 18	Holiday (*Presidents Day*)
March 3–7	Spring Break
March 13	Priority deadline for filing Financial Aid Applications for 2008–2009
March 14	Last day to withdraw from a course with a final grade of W
March 31	Registration for Fall Semester 2008 begins
April 4	Last day to file a Petition to Graduate for Fall Semester 2008 without a late fee
April 26	Last day of classes
April 28– May 3	FINAL EXAMS
May 3	Spring Commencement Exercises

Summer 2008

May 5	Re-petition deadline for Summer Term 2008 (for students who had petitioned for Spring Semester 2008)
May 7	Tuition and fees due for Summer Term 2008
May 12	SUMMER CLASSES BEGIN (*Monday*)
May 12–14	Financial Aid sign-in
May 16	Last day to register, add a class, or drop a class with full tuition refund and without receiving a grade of W
May 26	Holiday (*Memorial Day*)
June 20	Last day to withdraw from a course with a final grade of W (8-week and 11-week classes)
June 20	Last day of classes, first 6-week term
June 23	First day of classes, second 6-week term
July 4	Holiday (*Independence Day*)
July 3	Last day of 8-week classes (*final exam on last scheduled class day*)

| July 25 | Last day of 11-week classes (*final exam on last scheduled class day*) |
| Aug. 1 | Last day of classes, second 6-week term |

Fall 2008

April 4	Last day to file a Petition to Graduate for Fall Semester 2008 without a late fee
Aug. 3	Last day for returning students to register for Fall Semester 2008 without late registration fee of $150
Aug. 11	Tuition and fees due for Fall Semester 2008
Aug. 18	CLASSES BEGIN (*Monday*)
Aug. 22	Last day to register or add a class
Aug. 29	Last day to drop a class with full tuition refund and without receiving a grade of W
Sept. 1	Holiday (*Labor Day*)
Sept. 12	Re-petition deadline for Fall Semester 2008 (for students who had petitioned for Spring/Summer Semester 2008)
Sept. 19	Last day to file a Petition to Graduate for Spring Semester 2009 without a late fee
Oct. 13	Holiday (*Columbus Day*)
Oct. 13–14	Fall Break
Oct. 24	Last day to withdraw from a course with a final grade of W
Nov. 10	Registration for Spring Semester 2009 begins
Nov. 11	Holiday (*Veterans Day*)
Nov. 26–28	Holiday (*Thanksgiving*)
Nov. 30	Last day for returning students to register for Spring Semester 2009 without late registration fee of $150
Dec. 1	Last day to submit completed graduate-level defense and examination forms for Fall 2008 commencement
Dec. 3	Last day of classes
Dec. 4–5	Study Days (NO CLASSES)
Dec. 8–13	FINAL EXAMS
Dec. 13	Fall Commencement Exercises

Section 6: National Capital Region (*Page 44*)

http://uc.fit.edu/es/ncr

Kermit C. Zieg Jr., Ph.D., Professor of Management

Fort Detrick: (703) 751-1060, Fax (709) 751-4592; Office hours by appointment

Quantico: Office Hours: Monday–Friday, 9 a.m.–3 p.m.; Academic adviser, Wednesday, 1 p.m.–3 p.m.

Site has discontinued the eBusiness Concentration in the P.M.B.A. degree program.

Also added the following statement: Florida Tech is certified to operate by the State Council of Higher Education for Virginia.

Academic Calendar

Spring 2008 (Jan. 7–April 18)

Nov. 12	Web Registration begins
Jan. 7	SPRING SEMESTER BEGINS
Jan. 11	Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Jan. 21	Holiday (*Martin Luther King Jr. Day*)
Feb. 18	Holiday (*Presidents Day*)
March 14	Last day to withdraw from a class with a final grade of W
April 4	Last day to file a Petition to Graduate for Fall Semester 2008
April 11	Last day of classes
April 14–18	Final Exams

Summer 2008 (April 28–Aug. 8)
March 10   Web Registration begins
April 28   SUMMER SEMESTER BEGINS
May 2   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
May 26   Holiday *(Memorial Day)*
July 4   Last day to withdraw from a class with a final grade of W
July 4   Holiday *(Independence Day)*
Aug. 1   Last day of classes
Aug. 4–8   Final Exams

Fall 2008 Semester (Aug. 25–Dec. 5)
July 7   Web Registration begins
Aug. 25   FALL SEMESTER BEGINS
Aug. 29   Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
Sept. 1   Holiday *(Labor Day)*
Oct. 13   Holiday *(Columbus Day)*
Oct. 31   Last day to withdraw from a class with a final grade of W
Nov. 11   Holiday *(Veterans Day)*
Nov. 27–28   Holiday *(Thanksgiving)*
Nov. 28   Last day of classes
Dec. 1–5   Final Exams

Section 7: Northeast *(Page 48)*

http://uc.fit.edu/es/northeast

Academic Calendar

Spring 2008 (Jan. 7–April 18)
Nov. 12   Web Registration begins
Jan. 7   SPRING SEMESTER BEGINS
Jan. 11   Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
Jan. 21   Holiday *(Martin Luther King Jr. Day)*
Feb. 18   Holiday *(Presidents Day)*
March 14   Last day to withdraw from a class with a final grade of W
April 4   Last day to file a Petition to Graduate for Fall Semester 2008
April 11   Last day of classes
April 14–18   Final Exams

Summer 2008 (April 28–July 4)
March 10   Web Registration begins
April 28   SUMMER SEMESTER BEGINS
May 2   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W
May 26   Holiday *(Memorial Day)*
June 13   Last day to withdraw from a class with a final grade of W
June 27   Last day of classes
June 30–
 July 4   Final Exams
July 4   Holiday *(Independence Day)*

Fall 2008 (Aug. 25–Dec. 5)
July 7   Web Registration begins
Aug. 25   FALL SEMESTER BEGINS
Aug. 29   Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29   Last day to register, add a class, drop a class with a full tuition refund,
              or drop a class without receiving a grade of W

Sept. 1	Holiday (*Labor Day*)
Oct. 13	Holiday (*Columbus Day*)
Oct. 31	Last day to withdraw from a class with a final grade of W
Nov. 11	Holiday (*Veterans Day*)
Nov. 27–28	Holiday (*Thanksgiving*)
Nov. 28	Last day of classes
Dec. 1-5	Final Exams

Section 8: Orlando *(Page 54)*

www.fit.edu/orlando

Administrative Assistant, Becky Ripley

Training Administrator, Learning and Development, Doris Kilmain

Site has added the Master of Public Administration degree program (code: 8401), M.S. Logistics Management degree program (code: 8322), Logistics Management Concentration in M.S. Management (code: 8407), Transportation Management Concentration in M.S. Management (code: 8408), and M.S. Materiel Acquisition Management degree program (code: 8320).

Academic Calendar

Spring 2008 (*Jan. 7–April 18*)

Nov. 12	Web Registration begins
Jan. 7	SPRING SEMESTER BEGINS
Jan. 11	Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Jan. 21	Holiday (*Martin Luther King Jr. Day*)
Feb. 18	Holiday (*Presidents Day*)
March 14	Last day to withdraw from a class with a final grade of W
April 4	Last day to file a Petition to Graduate for Fall Semester 2008
April 11	Last day of classes
April 14–18	Final Exams

Summer 2008 (*April 28–Aug. 8*)

March 10	Web Registration begins
April 28	SUMMER SEMESTER BEGINS
May 2	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
May 26	Holiday (*Memorial Day*)
July 4	Last day to withdraw from a class with a final grade of W
July 4	Holiday (*Independence Day*)
Aug. 1	Last day of classes
Aug. 4–8	Final Exams

Fall 2008 (*Aug. 25–Dec. 5*)

July 7	Web Registration begins
Aug. 25	FALL SEMESTER BEGINS
Aug. 29	Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Sept. 1	Holiday (*Labor Day*)
Oct. 13	Holiday (*Columbus Day*)
Oct. 31	Last day to withdraw from a class with a final grade of W
Nov. 11	Holiday (*Veterans Day*)
Nov. 27–28	Holiday (*Thanksgiving*)
Nov. 28	Last day of classes
Dec. 1-5	Final Exams

Section 9: Patuxent *(Page 58)*

http://uc.fit.edu/es/patuxent

Assistant Resident Administrator, Jamie Lambert, jlambert@fit.edu
Assistant Resident Administrator, Juneé Drakeford-Johnson, jdrakfo@fit.edu
Location:
Florida Tech
22188 Three Notch Road, Suite D
Lexington Park, MD 20653

Academic Calendar

Spring 2008 (Jan. 7–April 18)
Nov. 12	Web Registration begins
Jan. 7	SPRING SEMESTER BEGINS
Jan. 11	Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Jan. 21	Holiday *(Martin Luther King Jr. Day)*
Feb. 18	Holiday *(Presidents Day)*
March 14	Last day to withdraw from a class with a final grade of W
April 4	Last day to file a Petition to Graduate for Fall Semester 2008
April 11	Last day of classes
April 14–18	Final Exams

Summer 2008 (April 28–Aug. 8)
March 10	Web Registration begins
April 28	SUMMER SEMESTER BEGINS
May 2	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
May 26	Holiday *(Memorial Day)*
July 4	Last day to withdraw from a class with a final grade of W
July 4	Holiday *(Independence Day)*
Aug. 1	Last day of classes
Aug. 4–8	Final Exams

Fall 2008 (Aug. 25–Dec. 5)
July 7	Web Registration begins
Aug. 25	FALL SEMESTER BEGINS
Aug. 29	Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Sept. 1	Holiday *(Labor Day)*
Oct. 13	Holiday *(Columbus Day)*
Oct. 31	Last day to withdraw from a class with a final grade of W
Nov. 11	Holiday *(Veterans Day)*
Nov. 27–28	Holiday *(Thanksgiving)*
Nov. 28	Last day of classes
Dec. 1–5	Final Exams

Section 10: Redstone *(Page 58)*

http://uc.fit.edu/es/redstone

Site Director, Timothy J. White, D.P.A.

Systems Administrator, Candace Rippy

Senior Administrative Clerk, Samantha Atchley

Mailing Address correction: Sparkman Center

Academic Calendar

Spring 2008 (Jan. 7–April 18)
Nov. 12	Web Registration begins
Jan. 7	SPRING SEMESTER BEGINS
Jan. 11	Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Jan. 21	Holiday *(Martin Luther King Jr. Day)*
Feb. 18	Holiday *(Presidents Day)*
March 14	Last day to withdraw from a class with a final grade of W
April 4	Last day to file a Petition to Graduate for Fall Semester 2008
April 11	Last day of classes
April 14–18	Final Exams

Summer 2008 (April 28–Aug. 1)
March 10	Web Registration begins
April 28	SUMMER SEMESTER BEGINS
May 2	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
May 26	Holiday *(Memorial Day)*
June 27	Last day to withdraw from a class with a final grade of W
July 4	Holiday *(Independence Day)*
July 25	Last day of classes
July 28– Aug. 1	Final Exams

Fall 2008 (Aug. 25–Dec. 5)
July 7	Web Registration begins
Aug. 25	FALL SEMESTER BEGINS
Aug. 29	Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Sept. 1	Holiday *(Labor Day)*
Oct. 13	Holiday *(Columbus Day)*
Oct. 31	Last day to withdraw from a class with a final grade of W
Nov. 11	Holiday *(Veterans Day)*
Nov. 27–28	Holiday *(Thanksgiving)*
Nov. 28	Last day of classes
Dec. 1-5	Final Exams

Section 11: Spaceport *(Page 68)*

www.fit.edu/spaceport

Senior Resident Administrator, Sharon Anderson

Patrick Air Force Base facilities have closed. The new location is:

Florida Tech Spaceport/Rockledge
1290 Rockledge Blvd. (U.S. Hwy 1)
Rockledge, FL 32955

(321) 504-4142, Fax (321) 504-6246
Office hours:
Monday-Thursday, 8 a.m.–5 p.m.

Kennedy Space Center Office hours:
Friday, 8 a.m.–4 p.m.

Academic Calendar

Spring 2008 (Jan. 7–April 18)

Nov. 12	Web Registration begins
Jan. 7	SPRING SEMESTER BEGINS
Jan. 11	Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Jan. 21	Holiday *(Martin Luther King Jr. Day)*
Feb. 18	Holiday *(Presidents Day)*
March 14	Last day to withdraw from a class with a final grade of W
April 4	Last day to file a Petition to Graduate for Fall Semester 2008
April 11	Last day of classes
April 14–18	Final Exams

Summer 2008 (April 28–Aug. 8)

March 10	Web Registration begins
April 28	SUMMER SEMESTER BEGINS
May 2	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
May 26	Holiday *(Memorial Day)*
June 27	Last day to withdraw from a class with a final grade of W
July 4	Holiday *(Independence Day)*
Aug. 1	Last day of classes
Aug. 4–8	Final Exams

Fall 2008 (Aug. 25–Dec. 5)

July 7	Web Registration begins
Aug. 25	FALL SEMESTER BEGINS
Aug. 29	Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Sept. 1	Holiday *(Labor Day)*
Oct. 13	Holiday *(Columbus Day)*
Oct. 31	Last day to withdraw from a class with a final grade of W
Nov. 11	Holiday *(Veterans Day)* Observed
Nov. 27–28	Holiday *(Thanksgiving)*
Nov. 28	Last day of classes
Dec. 1–5	Final Exams

Section 12: University Alliance *(Page 72)*

Academic Calendar

Spring 1— 2008

Oct. 29	First day to register for Spring 1
Jan. 3	Last day for to register for Spring 1
Jan. 4	Tuition due for Spring 1 collected by Bisk
Jan. 7	CLASSES BEGIN *(Monday)*
Jan. 11	Last day to show payment or Financial Aid to stay in class
Jan. 11	Last day to drop with a full refund
Jan. 14	First day to register for Spring 2
Jan. 21	Holiday *(Martin Luther King Jr. Day)*
Feb. 1	Last day to withdraw from a course with a W with no refund
Feb. 8	Last day to file a Petition to Graduate for Summer 2008 without a late fee
Feb. 18	Holiday *(Presidents Day)*
March 2	Last Day of Classes *(Sunday)*

Spring 2—2008

Jan. 14	First day to register for Spring 2
Feb. 25	Last day for to register for Spring 2
Feb. 29	Tuition due for Spring 2 collected by Bisk
March 3	CLASSES BEGIN *(Monday)*
March 8	Last day to show payment or Financial Aid to stay in class
March 8	Last day to drop with a full refund
March 10	First day to register for Summer 1
March 28	Last day to withdraw from a course with a W with no refund
April 27	Last Day of Classes *(Sunday)*
May 3	Spring Commencement Exercises

Summer 1—2008

March 10	First day to register for Summer 1
April 28	Last day for to register for Summer 1
May 2	Tuition due for Summer 1 collected by Bisk
May 5	CLASSES BEGIN *(Monday)*
May 9	Last day to show payment or Financial Aid to stay in class
May 9	Last day to drop with a full refund
May 12	First day to register for Summer 2
May 30	Last day to withdraw from a course with a W with no refund
May 26	Holiday *(Memorial Day)*
June 20	Last day to file a Petition to Graduate for Fall 2008 without a late fee
June 29	Last Day of Classes *(Sunday)*

Summer 2—2008

May 12	First day to register for Summer 2
June 23	Last day for to register for Spring 2
June 27	Tuition due for Summer 2 collected by Bisk
June 30	CLASSES BEGIN *(Monday)*
July 4	Holiday *(Independence Day)*
July 4	Last day to show payment or Financial Aid to stay in class
July 4	Last day to drop with a full refund
July 7	First day to register for Fall 1
July 25	Last day to withdraw from a course with a W with no refund
Aug. 24	Last Day of Classes *(Sunday)*

Fall 1—2008

July 7	First day to register for Fall 1
Aug. 18	Last day for to register for Fall 1
Aug. 22	Tuition due for Fall I collected by Bisk
Aug. 25	CLASSES BEGIN *(Monday)*
Aug. 29	Last day to show payment or Financial Aid to stay in class
Aug. 29	Last day to drop with a full refund

Sept. 1	First day to register for Fall 2
Sept. 1	Holiday (*Labor Day*)
Sept. 19	Last day to withdraw from a course with a W with no refund
Sept. 26	Last day to file a Petition to Graduate for Spring 2008 without a late fee
Oct. 6	Holiday (*Columbus Day*)
Oct. 19	Last Day of Classes (*Sunday*)

Section 13: Virtual Campus *(Page 76)*

http://uc.fit.edu/dl/vc
Senior Resident Administrator, Penny Vassar, pvassar@fit.edu

Resident Administrator, Nell Zook-Tamiroff, tamiroff@fit.edu, (877) 582-4941 (toll free in the U.S.)

(864) 226-2257, Fax (864) 226-2258

Site has added the Information Systems Concentration (code: 8402) to the M.S. Systems Management degree program.

Academic Calendar

Spring 2008 (Jan. 7–April 18)
Nov. 12	Web Registration begins
Jan. 7	SPRING SEMESTER BEGINS
Jan. 11	Last day to file a Petition to Graduate for Summer Semester 2008
Jan. 11	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
March 14	Last day to withdraw from a class with a final grade of W
April 4	Last day to file a Petition to Graduate for Fall Semester 2008
April 11	Last day of classes
April 14–18	Final Exams

Summer 2008 (April 28–Aug. 8)
March 10	Web Registration begins
April 28	SUMMER SEMESTER BEGINS
May 2	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
July 4	Last day to withdraw from a class with a final grade of W
Aug. 1	Last day of classes
Aug. 4–8	Final Exams

Fall 2008 (Aug. 25–Dec. 5)
July 7	Web Registration begins
Aug. 25	FALL SEMESTER BEGINS
Aug. 29	Last day to file a Petition to Graduate for Spring Semester 2009
Aug. 29	Last day to register, add a class, drop a class with a full tuition refund, or drop a class without receiving a grade of W
Oct. 31	Last day to withdraw from a class with a final grade of W
Nov. 28	Last day of classes
Dec. 1–5	Final Exams

Section 14: Degree Programs

Page 87: MASTER OF SCIENCE IN COMPUTER SCIENCE (MS/CS)

Degree Requirements *(change to minimum credit hour requirement)*

The Master of Science in Computer Science requires a minimum of 30 credit hours of approved graduate study. Students are encouraged to complete and successfully defend a thesis. Students who decide not to write a thesis must pass a final program examination.

The amended course requirements are:
CSE 5500 Computer Science Seminar* 0
      or
CSE 5501 Computer Sciences Internship* 0
CSE 5999 Thesis in Computer Science or
           Advanced Electives (CSE 5600 or higher)...........................6
           Electives (at least 6 credit hours must be in
           Computer Science, numbered CSE 5600 or higher) 12
MTH 5051 Applied Discrete Mathematics 3

All of the other course requirements remain unchanged. See current catalog.

* All students are required to register for Computer Science Seminar (CSE 5500) or Computer Sciences Internship (CSE 5501) twice during the degree program. The internship is completed with an information technology firm or industrial organization and is provided for students with no prior experience in a practical information technology setting.

Page 88: MASTER OF SCIENCE IN ELECTRICAL ENGINEERING (MS/EE)

Admission Requirements *(added information not included in published catalog)*

Applicants whose bachelor's degrees are in other engineering fields, mathematics or the physical sciences may be accepted, but will be required to remedy any deficiencies by satisfactorily completing a number of undergraduate courses in preparation for graduate study in electrical engineering. Students with backgrounds in electrical engineering may wish to inquire about study in the biomedical engineering option of the mechanical engineering master's degree program.

Curriculum

To earn the master of science degree, the student must complete an approved program plan for a total of 30 credit hours. The program may be tailored to a specific area of study or it may follow the requirements for one of the available specialization areas.

Electromagnetics

This area of specialization provides a background in applied and computational electromagnetics. Students develop analytical and computational tools needed to understand and solve complex field interactions including antennas and radiating structures, radar, field and wave propagation, scattering and interaction with materials. The curriculum requirements are provided as follows:

ECE 5410 Electrodynamics 1..3
ECE 5425 Antennas 1 3
ECE 5431 Computational Electromagnetics 3
           Approved electives (may include 6 credit hours
           of thesis) 21
           TOTAL CREDITS REQUIRED.......................................30

Photonics

Recent advances in optical communications and sensing have been largely due to the development of photonic devices and systems. This specialization is oriented to both devices and systems encompassing a wide range of areas including fiber-optic communication and sensing, lasers and laser system applications, and optical computing and signal processing. The study and research of these advanced devices and systems comprise the direction of this program.

Students are highly recommended to take the following three introductory courses:

ECE	5301	Semiconductor Device Theory	3
ECE	5350	Optical Electronics	3
ECE	5351	Optical Communication Systems	3
		Approved electives (may include 6 credit hours of thesis)	21
		TOTAL CREDITS REQUIRED	30

Recommended Electives

ECE	5311	Microelectronics Fabrication Laboratory
ECE	5333	Analog IC Design
ECE	5352	Fiber-optic Sensor Systems
ECE	5354	Acoustooptic and Electrooptic Devices
ECE	5355	Electrooptics Laboratory
ECE	5356	Optical Waveguides and Devices
ECE	5410	Electrodynamics 1
ECE	5418	Field Theory of Guided Waves 1
MTH	5201	Mathematical Methods in Science and Engineering
MTH	5202	Mathematical Methods in Science and Engineering 2
PHY	5020	Optics

Systems and Information Processing

Within this area of specialization, courses are selected to allow concentrations in areas that include systems, digital signal and image processing, neural networks and controls. Each student plans a program of study with a member of faculty whose professional field is related to student's interest.

The curriculum requirements for this area are provided as follows:

ECE	5201	Linear Systems 1	3
ECE	5234	Communication Theory	3
	or		
ECE	5223	Digital Communications	3
ECE	5245	Digital Signal Processing 1	3
MTH	5425	Theory of Stochastic Signals	3
		Mathematics Elective	3
		Approved Electives (may include 6 credit hours of thesis)	15
		TOTAL CREDITS REQUIRED	30

Wireless Systems and Technology

This area is focused on technologies surrounding wireless communication. It covers a wide range of topics both on the system level and the component level. On the system level, some of the studied areas include 2G and 3G cellular communication systems, wireless sensor networks, radars systems, smart antenna and MIMO communication systems, multi-media communication, radars, WLAN and WiMAX. On the component level, this specialization covers topics in electronics, electromagnetics and antenna design. Additionally, enabling signal processing, linear system theory and radio propagation topics are covered.

The curriculum requirements are separated into two parts as follows:

All courses from the core curriculum list 15
Approved electives (may include 6 credit hours
of thesis) 15
TOTAL CREDITS REQUIRED 30

Core Curriculum
ECE 5111 Radio Frequency Propagation 3
ECE 5201 Linear Systems..3
ECE 5234 Communication Theory 3
ECE 5245 Digital Signal Processing 1 3
MTH 5425 Theory of Stochastic Signals 3

Recommended Electives
ECE 5113 Wireless Local Area Networks
ECE 5115 Modern Wireless System Design
ECE 5117 Multimedia Communications
ECE 5118 Wireless Sensor Systems
ECE 5221 Personal Communication Systems
ECE 5223 Digital Communications
ECE 5238 Error Control Coding
ECE 5246 Digital Signal Processing 2
ECE 5248 Advanced Filtering
ECE 5251 Radar Systems
ECE 5333 Analog IC design
ECE 5418 Field Theory of Guided Waves
ECE 5425 Antennas 1
ECE 5426 Antennas 2
ECE 5450 Automated RF Measurements
ECE 5451 Microwave Circuit Design

With the approval of the student's adviser, other 5000-level courses may be added to the list of the approved electives.

Page 89: MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

Degree Requirements *(change in degree requirements)*
The master of science degree requires a minimum of 30 credit hours. Courses taken to satisfy admission prerequisites cannot be counted toward the degree requirements. Students without adequate undergraduate courses in accounting, statistics, linear algebra, differential equations, computer applications and economics will be required to make up these deficiencies. Applicants whose bachelor's degrees are not in engineering will also be required to remedy any additional deficiencies by satisfactorily completing a number of undergraduate courses selected to meet the prerequisites for graduate study in their engineering area of specialization.

Curriculum
The program requires five courses from the management area and five courses from the engineering or technical area. At least four courses should be taken from the engineering management (ENM) list and can be applied toward either the management or engineering requirement. The ENM course list includes courses that are considered engineering and/or management. Faculty will assist the student with the selection of courses.

Management
Five courses with a clear focus on management are required. These courses may be from the foundation, core or elective courses offered by the College of Business; courses with a management emphasis from the ENM course list; or from other

academic units in the university. Each student meets with a designated adviser with expertise in the field of management to select the five-course management sequence. A student must meet any prerequisites needed for a graduate course in management that may be required by the academic unit that offers the course.

Engineering

An engineering specialization is taken by every student based on his or her need for graduate education in technology. A specialization track can be drawn from any of the programs within the College of Engineering or closely allied disciplines such as mathematics or operations research. Some engineering courses may be selected from the ENM course list. Each student meets with a designated adviser familiar with the area of technical emphasis to form a sequence of five courses. A student must meet any prerequisites listed for a graduate engineering course.

A full-time student may complete an internship with an industrial, government or service organization, or elect to prepare and defend a thesis to account for up to six credit hours of the 30 credit hours required for graduation. In order to meet graduation requirements, a nonthesis student must present a portfolio of competencies and a summary of the career relevance of his or her academic study as part of the master's final program examination.

Page 97: MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Admission Requirements

The undergraduate backgrounds of applicants for admission to the master's degree programs vary considerably. For this reason, a variety of master's degree options are available. The applicant should have a bachelor of science or equivalent degree from a mechanical engineering program accredited by ABET. In evaluating an international application, consideration is given to academic standards of the school attended and the content of the courses leading to the degree obtained. Master's applicants are required to take the Graduate Record Examination (General Test).

Curriculum *(new specialization and change to DSRC specialization)*

Biomedical Engineering

Four core courses selected in consultation with the student's adviser from the list below:

BIO   5501   Cell and Molecular Biology
CHE   5103   Transport Processes in Bioengineering
CHE   5569   Biomaterials and Tissue Regeneration
ECE   5259   Medical Imaging
MAE   5710   Biomechanics
MAE   5720   Biomedical Instrumentation

Biomedical engineering applies engineering and science methodologies to the analysis of biological and physiological problems and the delivery of healthcare. The biomedical engineer serves as an interface between traditional engineering disciplines and living systems, and may focus on either, applying the patterns of living organisms to engineering design or engineering new approaches to human health. A biomedical engineer may use his/her knowledge of engineering to create new equipment or environments for such purposes as maximizing human performance or providing non-invasive diagnostic tools. Students can choose elective courses in their area of interest offered by other engineering disciplines.

Dynamic Systems, Robotics and Controls

Three core courses selected in consultation with the student adviser from the list below:

MAE 5316   Mechatronics
MAE 5318   Instrumentation and Measurement Systems
MAE 5480   Structural Dynamics
MAE 5610   Advanced Dynamics
MAE 5630   Modeling and Simulation of Dynamic Systems
MAE 5650   Robotics
MAE 5660   Robot Control

The student's program of study in this area will be tailored to provide the background and training to pursue a career in a desired and related area of interest. Examples of related areas include design and control of dynamic systems, robotics, vibration, automotive engineering, energy and power systems, etc.

Page 99: MASTER OF SCIENCE IN OPERATIONS RESEARCH

Operations research is a scientific approach to analyzing problems and making decisions. It uses mathematics and mathematical modeling on computers to forecast the implications of various choices and identify the best alternatives.

Operations research methodology is applied to a broad range of problems in both the public and private sectors. These problems often involve designing systems to operate in the most effective way. Many problems deal with the allocation of scarce human resources, money, materials, equipment or facilities. Applications include staff scheduling, vehicle routing, warehouse location, product distribution, quality control, traffic light phasing, police patrolling, preventive maintenance scheduling, economic forecasting, design of experiments, power plant fuel allocation, stock portfolio optimization, cost-effective environmental protection, inventory control and university course scheduling.

Operations research is interdisciplinary and draws heavily from the mathematics program. It also uses courses from computer science, engineering management and other engineering programs.

The Master of Science in Operations Research offers concentrations that emphasize those areas of application most in demand in today's job market. Graduates have skills that include probability and statistics, deterministic and stochastic models, optimization methods, computation and simulation, decision analysis and the ability to effectively communicate with clients and managers. In addition, graduates have a breadth of knowledge that allows them to work in teams, interacting with people who bring different expertise to a problem. All areas involve expertise with standard computer software packages.

Admission Requirements

An applicant for the master's program in operations research should have an undergraduate major in a science or engineering discipline that requires a significant amount of mathematics. Business majors with strong quantitative backgrounds are also encouraged to apply. A proficiency in mathematics covering topics in calculus and linear algebra, and computer literacy must be demonstrated by testing or suitable course work.

Degree Requirements

The master of science degree can be pursued with either a thesis or nonthesis option; each requires 30 credit hours. Under the thesis option, up to six credit hours of thesis may be granted in place of electives toward the required 30 credit hours and an oral defense is required. The nonthesis option requires a final program examination. Courses taken to satisfy admission prerequisites cannot be counted toward the degree requirements.

Curriculum

The program's curriculum is designed to provide breadth with some flexibility to accommodate the diversity of backgrounds typically found in an operations research program. Greater flexibility is provided for the elective courses beyond the core. A student has the choice of developing greater depth in one area of specialization, aiming at eventual research in that area, or continuing to develop breadth across more than one area. By choosing courses in a related field of application, students can prepare for careers in specialty areas such as management science, actuarial science or economic modeling in addition to conventional areas of operations research.

Each student will complete a program plan that satisfies the requirements listed below, subject to approval of the department head. Substitutions are sometimes permitted.

Core Courses (12 credit hours)
MTH 5411   Mathematical Statistics 1
ORP 5001   Deterministic Operations Research Models
ORP 5002   Stochastic Operations Research Models
ORP 5003   Operations Research Practice
      or
ORP 5010   Mathematical Programming

Restricted Electives (9 credit hours from the following list)
MTH 5051   Applied Discrete Mathematics
MTH 5102   Linear Algebra
MTH 5401   Applied Statistical Analysis
MTH 5412   Mathematical Statistics 2
ORP 5020   Theory of Stochastic Processes
ORP 5021   Queuing Theory

Computation Elective (3 credit hours from the following list)
MTH 5301   Numerical Analysis
MTH 5305   Numerical Linear Algebra
MTH 5320   Neural Networks
ORP 5050   Discrete System Simulation

Free Electives (6 credit hours)

Nonthesis option: Three courses in areas of interest to the student as approved in the student's program plan.

Thesis option: At least one course plus up to six credit hours for a thesis. The thesis should be an in-depth study of some topic and/or problem in operations research, subject to the approval of the thesis committee.

Page 103: MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Degree Requirements *(change in degree requirements)*

The Master of Science in Software Engineering requires a minimum of 30 credit hours of approved graduate study. Students are required to complete and successfully defend a thesis or pass a final program examination. The curriculum includes four required courses:

SWE 5001 Software Engineering 1
SWE 5002 Software Engineering 2
SWE 5411 Software Testing 1
SWE 5621 Software Metrics and Modeling

All students are required to register for Computer Science Seminar (CSE 5500) or Computer Sciences Internship (CSE 5501) twice during the degree program. The internship is completed with an information technology business or industrial organization and is available only for students without prior experience in a practical information technology setting.

Page 104: MASTER OF SCIENCE IN SPACE SYSTEMS (MS/SPC)

(Code: 8137)

Degree Requirements *(change in degree requirements)*

Required Courses (8 courses) 24
SPC 5001 Introduction to Space Systems 3
SPC 5004 Space Propulsion Systems 3
SPC 5005 Space Power Systems 3
SPC 5006 Space Communications and Data Systems 3
SPC 5012 Spacecraft Environment 3
SPC 5013 Space Systems Astrodynamics 3
SPC 5014 Spacecraft Dynamics and Control 3
SPC 5080 Space Missions* (See Note 1) 3

Electives (3 courses) *(See Note 2)* 9
MGT 5134 Commercial Enterprise in Space 3
SPC 5009 Space Structures and Materials 3
SPC 5010 Spacecraft Guidance, Navigation and Control 3
SPC 5011 Human Space Systems 3
SPC 5017 Aerospace Remote Sensing Systems 3
SPC 5018 Launch and Space Mission Operations 3
SPC 5065 Space Systems for Remote Operations 3
SPC 5066 Spaceflight Human Physiology 3
SPC 5090 Special Topics in Space Systems 3
SPC 5999 Thesis 3
                TOTAL CREDITS REQUIRED 33

*Serves as the capstone course for this program.

Note 1: Four-person student teams compete to develop the best proposal to carry out a specific mission in response to a Request for Proposals issued by the instructor acting as the Source Selection Official. Each team member's grade is partially determined by the team's competitive standing.

Note 2: Electives may be selected with the academic program chair's approval from the appropriate graduate-level offerings in University College or other academic units (e.g., business, engineering, science).

New Program listing (not in print in current catalog):
MASTER OF SCIENCE IN INFORMATION TECHNOLOGY (MS/IT)
(Code: 8420)

Required Courses (8 courses)...24
MGT 5000   Financial Accounting 3
MGT 5002   Corporate Finance 3
MGT 5013   Organizational Behavior 3
MGT 5014   Information Systems 3
MGT 5113   Project Management for Information Technology...............3
MGT 5114   Introduction to Information Security Management 3
MGT 5115   Global IT Management..3
MGT 5154   Advances Management Information Systems* 3

Directed Electives (3 courses)...9
MGT 5150   Management of Software Systems 3
MGT 5151   Database Systems Management...3
MGT 5152   Computer Systems Administration 3
                   TOTAL CREDITS REQUIRED.......................................33

*Serves as the capstone course for this program.

This program is available online through University Alliance (www.floridatechonline.com)

Section 16: Course Descriptions *(New or changed courses)*

Computer Information Systems *(deleted "Noncredit for CS and SWE majors")*

CIS 5080 PROJECTS IN COMPUTER INFORMATION SYSTEMS (3 credits). A capstone course that entails the student designing and implementing a significant project within the purview of information systems. Students propose a project and have it approved by the instructor.

CIS 5100 DATA STRUCTURES AND PROGRAMMING (3 credits). Introduces programming in an object-oriented language. Includes data structures. Aims to turn students with little or no programming experience into comfortable programmers. Also includes algorithms for use with stacks, queues and lists. Required for CIS majors.

CIS 5200 ADVANCED PROGRAMMING (3 credits). Follows CSE 5100 and covers advanced programming techniques and methodologies for engineering the same. Encourages algorithm exploration and comparison, and demonstration of a superior level of programming expertise in an object-oriented language. Covers advanced data structures. Required for CIS majors.

CIS 5220 COMPUTER ORGANIZATION (3 credits). Introduces system architecture including the specifics of computer arithmetic, memories, the CPU, input/output and peripherals. Includes hardware elements and how they fit into a complete computer system along with combination logic, gates and Boolean algebra. Required for CIS majors.

CIS 5230 OPERATING SYSTEMS (3 credits). Explores the algorithms, protocols and mechanisms representing traditional single processor and multi-user operating systems. Emphasizes process management and synchronization, threads, memory management, virtual memory and process scheduling. May require a research paper and/or programming assignments. Required for CIS majors. Prerequisites: CIS 5200, CIS 5220.

Computer Sciences *(added in support of new Biomedical Engineering Specialization in Mechanical Engineering)*

CSE 5615 COMPUTATIONAL MOLECULAR BIOLOGY (3 credits). Introduces important computational problems related to molecular biology. Includes motif finding, approximate sequence alignment, phylogeny construction and system biology. Requires knowledge in programming, discrete mathematics, data structures and algorithms. Does not require prerequisite biological sciences (BIO) course.

CSE 5780 PATTERN RECOGNITION IN BIOMEDICAL APPLICATIONS (3 credits). Introduces the fundamentals of statistical pattern recognition with examples from different biomedical application areas. Studies techniques for analyzing multidimensional data of various types and scales. Also covers algorithms for projections, and clustering and classification of data.

Electrical and Computer Engineering *(added in support of new Biomedical Engineering Specialization in Mechanical Engineering)*

ECE 5259 MEDICAL IMAGING (3 credits). Presents the interdisciplinary principles of medical imaging techniques such as diagnostic, ultrasound, radiography, x-ray computer tomography (CT) and magnetic resonance imaging (MRI). Includes the physical principles, noise modeling and signal processing for each imaging modality. Prerequisites: MTH 2201, MTH 2401.

Mechanical and Aerospace Engineering

MAE 5486 CRASHWORTHINESS (3 credits). Introduces the design of vehicles to protect occupants during collision. Includes trauma biomechanics, crash mechanics, structural crashworthiness, computer simulation of occupant motion and dynamic structural behavior. Draws examples from aeronautical and automotive applications. (Requirement: Instructor approval.)

(Courses below added in support of new Biomedical Engineering Specialization in Mechanical Engineering.)

MAE 5665 ROBOTICS FOR BIOMEDICAL APPLICATIONS (3 credits). Introduces the design of robotic mechanical systems for biomedical applications. Includes mechanical design of robotic surgical and telesurgery systems and automated surgical assistance devices. Addresses the surgical suite requirements for materials, ergonomics, sterilization, regulation and liability.

MAE 5710 BIOMECHANICS (3 credits). Introduces the mechanical and structural aspects of the human skeletal system. Includes the analysis and design of orthopedic implants such as hip and knee replacements. Prerequisites: MAE 3083.

MAE 5720 BIOMEDICAL INSTRUMENTATION (3 credits). Includes concepts and techniques of instrumentation in bioengineering. Emphasizes the effects of instrumentation on the biological system under investigation, transducers and couplers, data conversion, conditioning and transmission, and experimental problems in acute and chronic procedures with static and dynamic subjects. Prerequisites: MTH 2201.

MAE 5730 BIOPHOTONICS AND MICROSCOPY (3 credits). Introduces optical phenomena and the optical properties of biological tissue, basic elements of optics and optical sources. Emphasizes lasers in the context of biomedical applications. Also includes engineering principles of various microscopy modalities. Prerequisites: MTH 2201.

Florida Institute of Technology
University College
150 West University Boulevard
Melbourne, Florida 32901-6975
(321) 674-8880
http://uc.fit.edu
uc@fit.edu

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