September 30, 2011

From: Korhan Oyman, Associate Dean, College of Aeronautics

To: Gordon Nelson, Vice President for Academic Affairs

Subject: New College of Aeronautics Minor Program – Airport Design

Request your review and approval for a new College of Aeronautics minor program in Airport Design.

See attachment 1 for program overview.

See attachment 2 for a simplified business plan.

Request your approval and signature on the attachment 3, Adding a New Major or Minor to the Curriculum form.

Korhan Oyman
Associate Dean

Attachments
1. Airport Design Minor
2. Business Plan for Airport Design Minor
3. Add_New_Minor_Airport Design.pdf
Airport Design Minor

Educational objective

Prepare the civil engineering (CE) major for entry into the high-demand airport planning and design career field.

Minor Curriculum

Three of the following civil engineering courses:  
CVE 4016  Reinforced Concrete Structures  
CVE 4035  Urban Hydrology  
CVE 4060  Transportation Engineering  
CVE 4070  Construction Engineering  
CVE 4074  Leading Construction Operations  
  9 ch

Plus these College of Aeronautics courses:  
AVM 3201  Aviation Planning  
AVM 3202  Airport Design  
AVM 4201  Aviation Advanced Computer Apps  
AVM 4204  CAD for Airport Environments  
  12 ch

  21 ch total

CE Electives

Sophomore Year

SPRING
Business or Technical Elective................................. 3
Free Elective.................................................... 1

Junior Year

SPRING
Science Elective* ............................................... 3

Senior Year

FALL
Restricted Elective (CVE)...................................... 3

SPRING
Free Elective.................................................... 1
Restricted Electives (CVE)....................................... 6
Business Plan Elements – CoA Airport Design Minor

Program Relevance
- Is this program consistent with the mission of Florida Tech
  o Yes.
- Is this program consistent with the mission of department/college
  o Yes.

Program Demand
- What is the market for this program?
  o The target market for this program is civil engineering undergraduate students
- How many new students are expected to enroll in the first year
  o 5-10 students.
  o Domestic students; 5-7, international students, 2-3
  o Outlook in five years from now: 10% growth per year.
- What other universities offer this program
  o None
- Are there current trends or forecasts for interest in this program
  o Yes
  o Several members of our Board of Advisors who are working in the airport design and construction business have told us that the industry is crying for civil engineers who have knowledge of airports.
- Will this program be offered to a “non-traditional” audience
  o No, not at this time.
- What are employment opportunities after graduation
  o Significant employment opportunity with airport design and construction consultants
- If this is an undergraduate program, what are the graduate program opportunities
  o Yes, Airport Development and Management M.S.A.
- Is internship part of the program
  o No

Competition
- Do other competitive universities offer this program
  o No
- Are the programs successful (student completing, employed, etc.)
  o N/A
- How is this proposed program different if different
  o N/A

Academic Requirements/Considerations
- What will the entrance requirements be (GPA, SAT, math/science, etc.)
  o Same as existing
- Is the proposed program a substantive change according to SACS
  o No
- Is the proposed program in line with departmental/college accreditation
  o Yes
• What impact will the program have on existing programs
  o Does it replace an existing program
    o No
  o Does it complement or compete with another program
    o Yes, complements the civil engineering degree
• How will the new program be assessed (outcomes, accreditation, financial)
  o Normal AABI and SACS assessment procedures
• Is program accreditation required or proposed for the program
  o No

Financial Resources/Uses
• Can the program support itself financially (provide detailed estimates)
  o Yes. This is a no additional cost program.
• Will there be any assistants, fellowships available in this program
  o No
• What new courses, if any, will be required
  o Departmental courses
    o None
  o Service courses
    o None
• What new faculty, if any, will be required
  o Departmental
    • None
  o Service
    • None
• Will new support staff be required
  o No
• Will new GSA’s or adjuncts be required
  o Nor
• What type of new equipment, labs, or other facilities are required
  o None at this time.
• What new library resources will be required
  o None
Florida Institute of Technology

ADDING A NEW MAJOR OR MINOR
TO THE CURRICULUM

Please provide the following information when requesting a new major or minor (program or option) to be added to the curriculum. Only majors, minors and options are assigned a new code and print on the diploma. The code will be assigned by the Office of the Registrar and a copy of this form will be sent to the appropriate department.

COLLEGE: Aeronautics
DELIVERY MODE(S): Classroom (classroom, online)
DEPARTMENT: Aviation Studies
CAMPUS/SITE(S): Melbourne Campus

PROGRAM TO BE ADDED: ☐ Major ☒ Minor ☐ Option for ___________________________(existing degree program)

NOTE: Only Majors, Minors and Options receive new codes and print on the diploma; use Option for new program name to appear with existing degree name.

☐ Associate of Arts (A.A.) ☐ Master of Arts in Teaching (M.A.T.) ☐ Master of Science in Aviation (M.S.A.)
☐ Associate of Science (A.S.) ☐ Master of Business Administration (M.B.A.) ☐ Educational Specialist (Ed.S.)
☐ Bachelor of Arts (B.A.) ☐ Master of Education (M.Ed.) ☐ Doctor of Philosophy (Ph.D.)
☐ Bachelor of Science (B.S.) ☐ Master of Public Administration (M.P.A.) ☐ Doctor of Psychology (Psy.D.)
☐ Master of Arts (M.A.) ☐ Master of Science (M.S.) ☐ Graduate Certificate

OTHER ADDITION TO THE CURRICULUM (NOTE: Only Majors, Minors and Options receive new codes and print on the diploma; use Concentration or Specialization if the new program represents less than a full degree curriculum.)

☐ Concentration or ☐ Specialization for ___________________________(existing degree program)

PROGRAM TITLE Restricted to 30 characters, including spaces
Minor-Airport Design

TERM TO BE INITIATED: Spring 2012
ADVISER FOR NEW PROGRAM: Dr. Korhan Oyman
(Date program to be initiated must be no sooner than the next term for which registration has not begun)

ROUTING APPROVALS: 1) Department head/program chair and college dean approve and sign form. 2) The vice president for academic affairs approves business plan of the program in terms of financial viability and impact on the university mission and signs form. 3) Undergraduate Curriculum Committee or Graduate Council approves academics and signs form. 4) The vice president for academic affairs gives final approval of program, signs form and forwards to Office of the Registrar.

1) Department Head/Program Chair
2) Vice President for Academic Affairs
3) Chair, Graduate Council
4) Chair, Undergraduate Curriculum Committee

REGISTRAR’S USE ONLY

Florida Institute of Technology · Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 · (321) 674 - ext. · Fax (321) 674-7827
General Information – ext. 8115, Graduation – ext. 8116, Records and Transcripts – ext. 8117, Registration – ext. 8118

REG-80-58

A3