

AVIATION PROGRAM REVIEW

2007-2008

Department Abbreviation: AVIA

Recorder: Cynthia Weishapple

Date: _____

Participants in the Program Review Process: Brian Addis, Cynthia Weishapple

Please answer each question and give justification and explanation for your response. Also indicate any proposed changes that your review has prompted within each category. Resources for responding to questions are located in J:\Program Review\FY2008/~Information/Where to look for information.doc.

Alignment:

- Review your department's mission, vision, goal, intent, content, and completer statements. Records show that your department's statement is complete. Updated statements should be saved to J:\Program Review\FY08\Aviation\.
- To what degree do your department statements align with those of Inver Hills CC and MnSCU?

The program mission to provide the "most current education in aviation technology" aligns with the mission of IHCC to "prepare students for success in specific careers" and the mission of MnSCU to "provide programs and services integral for state and regional economic needs."

Curriculum:

- Review your courses and offerings from other community colleges and area 4-year schools. Are your courses consistent with what is offered at the other schools? Do they represent lower division course work at the universities? Do they transfer as equivalent courses in the major? Do they fulfill general education requirements? Or do they only count as electives? If some schools do not count a course toward the major or as an equivalent and you think it should be counted, please contact the transfer specialist at that school and pursue changing the designation.

The program descriptions for Air Traffic Control (program currently suspended), Business Aviation, and Professional Pilot were reviewed and found to be accurate. Because these are career programs, courses typically do not transfer, except for articulated degree programs (see section on Articulation).

Course Outlines:

- To what degree do all of your courses align with your department mission, vision, and goals?
- Is the course description still accurate?
- Review each outline to be certain all learning outcomes are measurable and use learning-centered verbs. Also, review semester indication to be certain it truly represents when the course is consistently offered. Try to avoid variable whenever possible. For example, it is fine to indicate that a course is offered every other fall.
- Discuss any listed prerequisites – are they necessary, is recommended a better term, if there isn't one listed should there be, etc.?
- Review the MnTC goal(s) and competencies listed for each course. Discuss how the competencies are a major part of the course and how faculty teach and assess each competency.

Although the mission and goals of the Aviation programs are not included in the course outlines, the courses align with the department mission, vision, and goals. Course descriptions and content may need to be addressed and will be incorporated into a full curriculum review in 2008-2009.

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Course outlines were reviewed and changes (other than moving the common course outlines to the new form) as follows:

Course No.	Course Title	Change Needed	Timeframe
AVIA 1100	Intro to Commercial Aviation	Update form Include % of time on topics	FY 2009
AVIA 1102	Private Pilot Ground School	Update form Include % of time on topics	FY 2009
AVIA 1105	Private Flight Lab	Update form Include % of time on topics	FY 2009
AVIA 2200	Instrument Ground	Update form Include % of time on topics Revise topics covered Include global positioning navigation	FY 2009
AVIA 2202	Professional Pilot Flight Lab I	Update form Include % of time on topics Include global positioning navigation Concern: CBE (lab)	FY 2009
AVIA 2204	Commercial Ground	Update form Include % of time on topics	FY 2009
AVIA 2206	Professional Pilot Flight Lab II	Update form Include % of time on topics Concern: CBE (lab)	FY 2009
AVIA 2208	Professional Pilot Flight Lab III	Update form Include % of time on topics	FY 2009
AVIA 2210	Aviation Operations Management	Update form Include % of time on topics	FY 2009
AVIA 2212	Aviation Law	Suspend	Fall 2008
AVIA 2214	Air Transportation	Investigate joint program Metro State Update form Include % of time on topics May do the same as 2212	FY 2009
AVIA 2218	Human Factors in Flight Operations	Update form Include % of time on topics Content revisions Statistical error data Empirical data on accidents	FY 2009
AVIA 2240	ATC I	No change needed	
AVIA 2241	ATC II	No change needed	
AVIA 2242	ATC III	No change needed	
AVIA 2243	Air Traffic Control IV	No change needed	

Although the courses generally transfer as equivalent courses to other programs in the MnSCU, system, students are encountering problems with transfer to Minneapolis Community and Technical College because the IHCC program is not accredited.

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Course Syllabi:

- A syllabus should be an accurate reflection of the common course outline allowing for individual faculty discretion for teaching methods, class procedures, assignments, and grading policy. Review individual syllabi for each course.
- Does each section list the learning outcomes the same as on the course outline? Are the assessment methods consistent with the course outline? Are the MnTC competencies listed on the syllabus as additional outcomes, if they are not already part of the course outcomes? Does the syllabus accurately reflect the course outline?

The course syllabi accurately reflect the common course outlines in terms of course competencies, outcomes, and measures.

Articulation:

- List any articulation agreements your department has. When was each last reviewed? If it has been longer than five years, please negotiate updated agreements using the new standardized form (see Anne Johnson).
- Does your department have a pre-major track for the AA degree? If not, please consider developing a sequence of courses (10-20 credits) that an Inver Hills CC student should take in order to transfer into the major at a 4-year school at the junior level.

Articulation agreements and their status are listed below:

University of North Dakota: Business Administration (Airport Management) or
Commercial Management

Dated: 2001/2003

Current status: Current (few students take advantage of this transfer agreement and none of the AVIA courses transfer)

Metropolitan State University: First College

Dated: 2003

Current status: Current (16-25 credits in aviation transfer as program requirements)

Emery Riddle Aeronautical University: Professional Aeronautics or Technical Management

Dated: 2006

Current status: Current

A potential for program growth may be exploring partnerships with the University of North Dakota, Western Michigan, and Emery Riddle to have IHCC be an "extension" site.

Internal Partnerships:

- Describe academic partnerships your department has with other departments on campus with emphasis on courses required in your program from another department and vice versa. Are there any concerns from either department concerning this coursework or student academic achievement within these courses?

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No concerns have come to light concerning curriculum. Records indicate that from Summer 2005-Spring 2007, 17 students enrolled in PSYC 1101 (General Psychology) were concurrently enrolled in AVIA 1100 and 17 students enrolled in GEOG 1140 (Meteorology) were concurrently enrolled in AVIA 1102.

Enrollment:

- Examine the past three year enrollment trend in all courses and sections. Look at faculty/student ratio. Evaluate composition of students by gender, racial-ethnic background, and disabilities. Make any recommendations concerning scheduling for the next few years.

The last three year FYE enrollments are listed below:

Year	FYE	No. of Sections	Seats Available	% Filled	Average Size
2006	16	21	775	26%	10
2007	8	11	430	26%	10
2008	6	7	261	33%	14

These data indicate that enrollments are decreasing and that the aviation department has made attempts to maximize scheduling. The number of sections has decreased, but the percentage of fill has increased.

These numbers do not reflect the students who pursue Associate in Arts degrees. Because transfer is enhanced with the AA, students declare the AA and use aviation credits as electives towards the degree. An AA facilitates transfer to Metropolitan State University and St. Cloud State University programs.

Completers:

- Review Occupational employment statistics for graduates or transfers within your program.

The most recent data available indicates the following:

Air Traffic Controller

Year	No. of Graduates	No. Employed	Median Wage
2003	4	9	\$11.60
2002	3	7	\$11.60

Aircraft Pilot and Navigator

Year	No. of Graduates	No. Employed	Median Wage
2003	5	13	\$15.19
2002	4	13	\$15.21

Aviation Management

Year	No. of Graduates	No. Employed	Median Wage
2003	1	Not reported	Not reported

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Cost Analysis:

- Evaluate program cost within Inver Hills CC and across MnSCU. If your program is above the mean, what factors influenced it? What possible ways are there to reduce cost and maintain the standards student learning? What are the areas of campus function below the mean that might offset the cost? Review department budget and expenditures for the past three years. Devise a three year plan for equipment and supply purchasing.

According to the most recent data available, the average cost per student to deliver aviation (FY2007) was \$6,351. In FY 2006, this cost per student was \$3,062; the MnSCU average (FY06) was \$7,357.

Student Learning:

- Review past SAAP forms. Examine failure/withdrawal rates for all courses. Review internship agreements. Examine level of success student have upon transfer from your program.

No full-time faculty are employed in the aviation programs; thus, no department or individual SAAPs have been filed.

Most recent aggregate data (from the terminal server) on successful completion of all sections of aviation are included below:

Semester	Successful (%)	Unsuccessful (%)	Withdrawn (%)	Total
Fall 2004	92 (73.6%)	17 (13.6%)	16 (12.8%)	125
Spring 2005	80 (84.2%)	8 (8.4%)	7 (7.4%)	95
Fall 2005	59 (69.4%)	19 (22.4%)	7 (8.2%)	85
Spring 2006	75 (79.8%)	8 (8.5%)	11 (11.7%)	94

Student Feedback on Teaching and Learning:

- All students are surveyed annually. Special groups of students are asked to complete additional surveys. Review the survey findings. Where Inver Hills CC performs significantly better than the national average, indicate what your department has done to foster these attitudes. Where Inver Hills CC performs significantly worse than the national average, indicate what your department can do to close the gap.

In the most recent Student Satisfaction Survey (Noel-Levitz) administered at IHCC, the following items were identified as having statistical significance between how students rated their satisfaction with that item and that item's importance to them:

Faculty provide timely feedback about student progress in a course.
Students are notified early in the term if they are doing poorly in the class.
Faculty take into consideration student differences as they teach a course.

Resources:

- Review library holdings for your department.

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- Review the web site, catalog, faculty web sites, and promotional material for your department. If any errors are found, notify your dean. Supply the URLs for websites.

Federal Aviation Administration; Transportation Security Administration, Minnesota DOT Office of Aeronautics.

Software will be explored for development of virtual learning opportunities for students.

Faculty:

- List faculty members, full-time and adjunct, and their academic profiles, including strengths and areas of expertise. What are the faculty development needs for your department?

The program is staffed with part-time faculty who have special expertise in aviation and have been active contributors to the college for over thirty years.

Part-time faculty and their credentials are listed below:

Brian Addis, program founder, aviation program development experience

Airline transport pilot and flight instructor

Richard Vosika, aviation program development experience

Flight instructor, commercial pilot

William Sydlo, aviation program development, air traffic control development

Goals:

- Define your departmental goals for the next three years.

Explore partnerships (extension site status) with University of North Dakota, Western Michigan and Emory Riddle (premier aviation bachelor's degree programs) to promote program growth.

Investigate new program development for aviation security; consider curriculum revisions to promote program growth.

Develop a marketing plan to attract and retain students.

Pursue seamless transfer and articulation agreements that provide additional options for students.

Rebuild an advisory committee to provide recommendations for program marketing, growth, and degree options.

Attachments: