1. Call to order

2. Approval of the minutes of January 12, 2009

3. Acceptance of the agenda – B. Abbott

4. Reports of the Speakers of the Faculties
   a. Indiana University – M. Nusbaumer
   b. Purdue University – N. Younis

5. Report of the Presiding Officer – S. Davis

6. Committee reports requiring action
   a. Educational Policy Committee (Senate Document SD 08-6) – G. Moss
   b. Executive Committee (Senate Document SD 08-7) – B. Abbott

7. New business

8. Committee reports “for information only”
   a. Faculty Affairs Committee (Senate Reference No. 08-15) – K. McDonald
   b. Curriculum Review Subcommittee (Senate Reference No. 08-16)

9. The general good and welfare of the University

10. Adjournment*

    *The meeting will adjourn or recess by 1:15 p.m.

---

Approving
S. Davis
J. Grant
M. Nusbaumer
K. Pollock
A. Ushenko
N. Younis

Absent
B. Abbott

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Attachment:
“Academic Calendar, 2011-2012” (SD 08-6)
“Approval of replacement member of the General Education Subcommittee” (SD 08-7)
“Re: Senate Document SD 08-2” (SR No. 08-15)
“Proposal for the Advanced Manufacturing Management Certificate” (SR No. 08-16)
TO:                  Fort Wayne Senate
FROM:            Educational Policy Committee
                Glenda Moss, Chair
DATE:             22 January 2009
SUBJ:             Academic Calendar for 2011-2012

DISPOSITION:           To the presiding officer for implementation

RESOLVED, That the Proposed Academic Calendar for 2011-12 be adopted.

For Calendar Subcommittee:

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For Educational Policy Committee:

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Note: Questions concerning this document should be directed to G. Moss at Ext. 16440.
ACADEMIC CALENDAR FOR 2011-2012

Fall Semester, 2011

Monday  22 August  Classes Begin
Friday  2 September  Classes Suspended at 4:30 p.m. (Labor Day Recess)
Tuesday  6 September  Classes Resume
Mon.-Tues. 10 – 11 October  Fall Recess
Wednesday 12 October  Classes Resume
Tuesday 22 November  Thanksgiving Recess Begins After Last Class
Monday 28 November  Classes Resume
Mon.-Sun. 12-18 December  Final Exam Week/Last Week of Classes

Winter Inter-session, 2011-2012

Monday 19 December  Classes Begin
Friday 23 December  Classes Suspended (Christmas Holiday)
Monday 26 December  Classes Resume
Friday 30 December  Classes Suspended (Presidents’ Designated Holiday)
Monday 2 January  Classes Resume
Sunday 8 January  Last Day of Classes

Spring Semester, 2012

Monday 9 January  Classes Begin
Monday 16 January  Martin Luther King Jr. Holiday
Mon. - Sun. 5-11 March  Spring Recess
Monday 12 March  Classes Resume
Friday 6 April  Classes Suspended at 4:30 p.m.
Monday 9 April  Classes Resume
Mon.-Sun 30 April - 6 May  Final Exam Week/ Last Week of Classes
Wednesday 9 May  Tentative Date of Commencement

Summer Semester, 2012

Monday 7 May  Summer Semester Begins
Monday 14 May  Summer Session I: Classes Begin
Friday 25 May  Memorial Day Recess Begins at 4:30 p.m.
Tuesday 29 May  Classes Resume
Friday 22 June  Summer Session I: Classes End at 4:30 p.m.
Monday 25 June  Summer Session II: Classes Begin
Tuesday 3 July  Classes Suspended at 4:30 p.m. (Independence Day Holiday Recess)
Wednesday 4 July  Independence Day Holiday Observed
Thursday 5 July  Classes Resume
Friday 3 August  Summer Session II: Classes End at 4:30 p.m.
Sunday 19 August  Summer Semester Ends
MEMORANDUM

TO: Fort Wayne Senate
FROM: Bruce Abbott, Chair
       Executive Committee
DATE: 26 January 2009
SUBJ: Approval of replacement member of the General Education Subcommittee

DISPOSITION: To the Presiding Officer for implementation

WHEREAS, The Bylaws of the Senate provide (5.1.2.) that “… Senate Committees … shall have the power to fill Committee vacancies for the remainder of an academic year, subject to Senate approval at its next regular meeting”; and

WHEREAS, There is a vacancy on the General Education Subcommittee; and

WHEREAS, The General Education Subcommittee has appointed Melanie Bookout as the replacement member for the remainder of the 2008-09 academic year;

BE IT RESOLVED, That the Senate approve this appointment.

Approving  Not Approving  Absent
S. Davis      B. Abbott
J. Grant
M. Nusbaumer
K. Pollock
A. Ushenko
N. Younis
To: Faculty Senate

From: Faculty Affairs Committee

Date: January 20, 2009

Subj: Senate Document SD 08-2

At the October meeting, SD 08-2 was referred to the Faculty Affairs Committee for discussion and deliberation. FAC reviewed the Constitution of the Faculty of IPFW and discussed the proposal. While FAC reaffirms the faculty’s right to discuss curriculum issues without administrative interference, the committee has concluded that the Constitution of the Faculty addresses this issue and no further action is needed.
TO:       Fort Wayne Senate

FROM:     Peter Iadicola

SUBJECT:  Proposal for Defending Departmental Faculty Rights of Discussion and Recommendation for Departmental Curriculum

DATE:     October 20, 2008

DISPOSITION: To the Presiding Officer for implementation

Whereas, under the Constitution of the Faculty of Indiana University-Purdue University Fort Wayne, section VI, part B, defining the powers of the faculty of this institution, it states that “…the power to review and approve academic degrees, to develop curriculum, instructional and examination procedures and undergraduate degree requirements, and to nominate candidates for these degrees is delegated to the school and division faculties, and the power to develop course content and new courses is delegated to the academic departments.”

And Whereas, the Voting Faculty of academic departments are the most knowledgeable about the content and standards of the curriculum that falls within their department’s program offerings.

And Whereas, any interference with the right of department faculty by non-departmental faculty and administrators, including Deans, Vice Chancellors, or the Chancellor, to discuss and consider proposals to recommend creation, modification or elimination of programs that are offered by their department is a serious breach of departmental faculty powers and responsibilities.

Therefore Be It Resolved, that non-program faculty and administrative personnel who are to participate in departmental faculty deliberations regarding program curriculum are to participate only upon invitation by the faculty of the department and that their participation be limited to providing information but not proposing or interfering with faculty discussion and proposals for recommendation for program creation, modification, or elimination.
TO:         Bruce Abbott, Chair, Senate Executive Committee
FROM:   Ann Livschiz, Co-Chair, Curriculum Review Subcommittee
         Susan Skekloff, Co-Chair, Curriculum Review Subcommittee
DATE:    22 January 2009
SUBJECT: Request for a New Credit Certificate Program—Advanced Manufacturing Management Certificate—from the Department of Manufacturing & Construction Engineering Technology & Interior Design

The Curriculum Review Subcommittee supports the proposal for the Advanced Manufacturing Management Certificate, and finds that the proposal requires no Senate review.

Approving
R. Duchovic
B. Hancock
G. Hickey
A. Karim
C. Lawton
A. Livschiz
D. Mansour-Cole
S. Skekloff

Not Approving

Absent
C. Sorge
IPFW
Manufacturing & Construction Engineering Technology & Interior Design
Request for a New Credit Certificate Program

Campus: ___________ IPFW

Proposed Title of Certificate Program:  __Advanced Manufacturing Management Certificate

Projected Date of Implementation: ___ Fall 2009

TYPE OF CERTIFICATE:  (check one)

X☐ UNDERGRADUATE CERTIFICATES — These programs generally require 12-29 credits of undergraduate-level academic work.

☐ GRADUATE CERTIFICATES — These programs generally require 12-29 credits of graduate-level academic work or undergraduate academic work carrying graduate credit.

☐ POST-BACCALAUREATE CERTIFICATES — These programs generally require 12-29 credits of undergraduate-level academic work, although students enrolling in these programs must have completed their baccalaureate degrees.

I.  Why is this certificate needed? (Rationale)

Working professionals in various manufacturing sectors (e.g., biomedical, military, automotive, electronics, construction, and sports) seek additional knowledge for career advancement to management and ownership roles, rather than to acquire entry-level employment. Manufacturing operations management; quality assurance; process & product development; logistics and inventory control; cost analysis and health, safety and environmental assurance are among themes of study that are expected to remain in high demand, according to the Manufacturing Skill Standards Council and other industrial groups.

II.  List the major topics and curriculum of the certificate.

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18 Total
III. What are the admission requirements?

The program is available to individuals admitted to IPFW (See IPFW bulletin for admission requirements). Students must complete MA 159 or MA 153 & MA 154 or equivalent before starting on the certificate program.

IV. List the major student outcomes (or set of performance based standards) for the proposed certificate.

Students will have basic understanding and knowledge of the following:

- Forecasting methods
- Aggregate production planning
- Scheduling of operations
- Materials requirements planning
- Breakeven analysis
- Project management techniques
- Theory of constraints
- Statistical process control techniques
- Quality control charts
- Process capability studies
- Operation of metrology instruments
- Benefit cost analysis
- Equipment justification and replacement
- Cost evaluation of alternatives
- Project and product costing
- Use of computers in manufacturing
- Just-in-time concepts
- Waste elimination
- Inventory reduction techniques
- 5S
- Visual management
- Standardized work
- Error proofing
- Setup reduction
- Lean layout design
- Pull system
- Value stream mapping
- Lean measurable
- Kaizen

V. Explain how student learning outcomes will be assessed (student portfolios, graduate follow up, employer survey, standardized test, etc.) and describe the structure/process for reviewing assessment findings for the purpose of ensuring continuous improvement of the certificate.
The classes offered in the certificate are offered in the Industrial Engineering Technology (IET AS & BS) program that is housed in the MCET department. The courses are assessed using the assessment guidelines required by Accreditation Board for Engineering and Technology (ABET).

ABET program outcomes:

a. an appropriate mastery of the knowledge, techniques, skills and modern tools of the appropriate ET program.
b. an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology.
c. an ability to conduct, analyze and interpret experiments and apply experimental results to improve processes.
d. an ability to apply creativity in the design of systems, components or processes.
e. an ability to function effectively on teams.
f. an ability to identify, analyze and solve technical problems.
g. an ability to communicate effectively.
h. a recognition of the need for, and an ability to engage in lifelong learning.
i. an ability to understand professional, ethical and social responsibilities.
j. a knowledge of and respect for diversity, contemporary societal and global issues related to the profession.
k. a commitment to quality, timeliness, and continuous improvement.

IET AS Degree

a. An appropriate mastery of the knowledge, techniques, skills and modern tools of industrial engineering technology.
   a1. technical expertise in quality, metrology, and SPC.
   a2. technical expertise in ergonomics, and work methods design.
   a3. technical expertise in facilities layout, and production planning and control.
   a4. technical expertise in CAD, engineering graphics, and GD&T.
   a5. technical expertise in materials and processes, and basic machining.
   g1. an ability to communicate effectively.
   g2. an ability to communicate effectively through oral presentation.
   j1. a knowledge of and respect for diversity.
   j2. a knowledge of contemporary societal issues related to the profession.
   j3. a knowledge of contemporary global issues related to the profession.
   k1. a commitment to quality.
   k2. a commitment to timeliness.
   k3. a commitment to continuous improvement.

IET BS Degree

a. An appropriate mastery of the knowledge, techniques, skills and modern tools of industrial engineering technology.
   a1. technical expertise in quality, metrology, advanced SPC, SQC, TQM, ISO standards, and design of experiments.
   a2. technical expertise in ergonomics, work methods design, optimization, engineering economy, and cost estimating.
a3. technical expertise in facilities layout, production planning and control, queuing theory, modeling, and simulation.
a4. technical expertise in CAD, engineering graphics, GD&T, gage capability studies, and measurement uncertainty.
a5. technical expertise in materials, manufacturing processes, design for manufacturing and assembly, and CNC machining.
g1. an ability to communicate effectively.
g2. an ability to communicate effectively through oral presentation.
j1. a knowledge of and respect for diversity.
j2. a knowledge of contemporary societal issues related to the profession.
j3. a knowledge of contemporary global issues related to the profession.
k1. a commitment to quality.
k2. a commitment to timeliness.
k3. a commitment to continuous improvement.

The student learning outcomes will be assessed by regular homework assignments, lab work, written reports, project work, oral presentations, and exams (see table A1). Annual graduate exit survey, alumni survey and employer survey are also conducted every three years. The assessment findings and evaluation of the certificate program for continuous improvement will follow the Department’s current assessment and continuous improvement plan.

VI. Describe student population to be served.

This certificate program will serve students in the following categories:
a. Students currently enrolled in a variety of programs at IPFW, such as:
   • Organizational Leadership and Supervision with an Advanced Manufacturing Management Minor.
   • General Studies with Advanced Manufacturing Management Option.
   • Industrial Engineering Technology

b. Practicing engineers, and manufacturing managers who have a need to broaden their professional knowledge.

VII. How does this certificate complement the campus or departmental mission?

Manufacturing management is constantly evolving. With the availability of this certificate program, the MCET department will be able to help fulfill the campus and departmental missions by providing additional educational opportunities to local business, industries and communities.

VIII. Describe any relationship to existing programs on the campus or within the university.

The proposed certificate program is intended to be an independent program serving primarily the residents, business and industrial community of Northeastern Indiana. Technical courses similar to those in the proposed certificate program are found in the bulletins of Purdue University.
IX. List and indicate the resources required to implement the proposed program. Indicate sources (e.g., reallocations or any new resources such as personnel, library holdings, equipment, etc.).

- Financial support to convert the above listed courses into hybrid courses to enable us to offer them through Continuing Studies.
- Library resources (including licensed database, electronic or print journals subscriptions, reference materials, and circulating books, along with electronics reserves and document delivery services) should be adequately covered by our existing collections that support teaching and research in related fields of study (e.g. industrial engineering technology, personnel, administration, supervision, or management). Librarian and library staff support for faculty or students seeking research consulting and information services should also be provided under current staffing arrangements.

X. Describe any innovative features of the program (e.g., involvement with local or regional agencies, or offices, cooperative efforts with other institutions, etc.).

This certificate program will enable IPFW to bring state-of-the-art training that emphasizes practical applications to the local community and companies and help them to stay at the competitive edge.
Table A1. Curriculum Map of Industrial Engineering Technology.

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4 = Outcome addressed considerably
3 = Outcome addressed moderately
2 = Outcome addressed briefly
1 = Outcome addressed but not assessed
0 = Outcome not addressed