

5-16-1984

CWU Faculty Senate Minutes - 05/16/1984

Susan Billings

Follow this and additional works at: <http://digitalcommons.cwu.edu/fsminutes>

Recommended Citation

Billings, Susan, "CWU Faculty Senate Minutes - 05/16/1984" (1984). *Faculty Senate Minutes*. 757.
<http://digitalcommons.cwu.edu/fsminutes/757>

This Meeting Minutes is brought to you for free and open access by the CWU Faculty Senate Archive at ScholarWorks@CWU. It has been accepted for inclusion in Faculty Senate Minutes by an authorized administrator of ScholarWorks@CWU. For more information, please contact pingfu@cwu.edu.

REGULAR FACULTY SENATE MEETING

May 16, 1984
Central Washington University

Presiding Officer: Phil Backlund
Recording Secretary: Susan Billings

ROLL CALL

Senators: All Senators and/or their Alternates were present except for Agars, Duncan, Mitchell and Shorr.
Visitors: Dean Schliesman, Dean Comstock, Helmi Habib, Don Shupe, Bo Beed, Kent Richards, Dean Pappas, Rosco Tolman

CHANGES TO AGENDA

1. Two items were added to correspondence.

APPROVAL OF MINUTES

*MOTION NO. 2282 Jim Hinthorne moved and Charles Vlcek seconded a motion to approve the minutes of May 2, 1984 as printed. Motion carried.

CORRESPONDENCE

Lillian Canzler abstracted the following correspondence:

1. a letter from Ron Frye, dated May 9, 1984, announcing his resignation from the Energy Advisory Committee.
2. a letter from Bo Beed, Chairman of Technology & Industrial Education, dated May 8, 1984, requesting that the Faculty Senate reconsider the Manufacturing Engineering Technology program that was rejected on May 2, 1984. The letter was accompanied by a petition from thirty six faculty members (ref. Faculty Code, sec. 1.60), therefore the item will be reconsidered under old business.

REPORTS

1. CHAIR

Chairman Backlund

- reported that two thirds of the faculty voted in the at-large election of Senators, a good turnout. The results of the election are as follows: Education, Position 1, Lillian Canzler (S) and Larry Wald (A); Education, Position 2, Tim Young (S) and David Shorr (A); Psychology, Libby Ness, Broad (S) and Jim Eubanks (A); Music, Larry Gookin (S) and Robert Panerio (A); Library, Charles Vlcek (S) and Victor Marx (A); Business Administration, Wayne Fairburn (S) and Shelly Jones (A); Physical Education, Lori Clark (S).
- reported on the progress of the search for a Dean of the College of Letters, Arts and Sciences. The search committee has selected five finalists, three of which have been invited to visit the campus. A schedule from Dean Comstock will be forthcoming which will outline the timetable for each visitation. Included in each applicant's schedule will be a general faculty visitation period, which will give faculty members the opportunity to meet the applicants and ask questions.
- reported on the Council of Academic Deans' continuing work on revision of the Academic Plan. Revision is currently underway and will continue through fall quarter, 1984. Vice President Harrington has distributed to department chairs an analysis of the 1982 Academic Plan and asked that comments regarding this analysis be sent to him prior to June 1, 1984. Also distributed to department chairs by the Vice President were statistical documents and a list of questions intended to promote departmental discussion. Input regarding these questions will be collated over the summer and into the fall.
- mentioned that the University Budget Committee will meet Monday, May 21 to consider the budget for the 1985-87 biennium.
- mentioned that student enrollment figures are up slightly this year (6088 FTE students) compared to last year (5966 FTE students), and that Legislative allocations for next year will be for 5966 FTE students. Admissions statistics for next year are down somewhat but Dean Pappas attributes this to the new admissions fee policy. Application figures are also running low at other state institutions this year.
- reminded Senators that the Executive Committee will soon be making campus committee appointments based on the committee preference sheets that have been returned to the Faculty Senate office. Thus far 92 faculty members have volunteered to serve on university committees.
- distributed a list of nominations for Executive Committee members for the term of office beginning June 15, 1984 and opened the floor to further nominations. Nominations include Phil Backlund for Chair, Tim Young and Ken Harsha for Vice-Chair, Don Black for Secretary, Robert Mitchell and Kelton Knight for At-large positions. Nominations will remain open

REPORTS

1. CHAIR - continued
until the time of the election, which will be held at the last Senate meeting of the year on May 30, 1984.
2. ACADEMIC AFFAIRS COMMITTEE
Roger Fouts reported that Dr. Robert Carlton, Chairman of the Education Department, has temporarily withdrawn his request for reorganization of the Department of Education into a School or College of Education because of insufficient time in this academic year for the committee to adequately address and evaluate the proposal. Dr. Carlton anticipates resubmitting the proposal in the near future.

The committee continues its investigation into a change to the semester system, with the assistance of Registrar Bovos and Vice President Harrington.
3. BUDGET COMMITTEE
Eric Thurston reported the the Budget Committee is looking into the possibility of modifying the salary scale, specifically the professional growth section. A progress report on this issue will be made at the May 30 Senate meeting.
4. CODE COMMITTEE
Beverly Heckart reported that the Code Committee will meet with the administration to discuss the particular code changes on which there remains some disagreement, and that they are busily readying the document for the Board meeting in June. The Senate will be asked at the next meeting to consider all the proposed changes not voted on as of May 16, 1984.
5. CURRICULUM COMMITTEE - No report
6. PERSONNEL COMMITTEE - No report

OLD BUSINESS

1. RECONSIDERATION OF ADMISSION REQUIREMENTS
Discussion of Motion no. 2280 (to adopt the recommendations submitted by Dean Pappas regarding modification of the High School Course Pattern, tabled May 2, 1984) resumed.
Dean Pappas distributed to Senators a revised version of his 4/27/84 recommendations, and Chairman Backlund ruled that this revised policy recommendation be substituted for the recommendation dated 4/27/84 in consideration of Motion no. 2280.
*MOTION NO. 2280A Robert Jacobs moved and Beverly Heckart seconded a motion to amend the main motion by adding to the requirement for two years of Foreign Language the recommendation that students take two years of a single Foreign Language. Motion carried.
*MOTION NO. 2280B Robert Jacobs moved and Eric Thurston seconded a motion to amend the main motion by adding to the requirement for 2½ years of Social Studies the parenthetical phrase "including instruction in at least one year of History and U.S. Government". Motion carried.
*MOTION NO. 2280C Robert Jacobs moved and Jack Dugan seconded a motion to amend the main motion by changing the requirement for Mathematics from two years to three years. The motion to amend was defeated.
*MOTION NO. 2280D Robert Jacobs moved and Richard Jensen seconded a motion to amend the requirement for four years of English by inserting a parenthetical phrase which reads "including instruction in at least one year each of Literature and Composition; other courses may include Journalism, Creative or Exploratory Writing, Speech, etc.). Motion carried.
*MOTION NO. 2280E Charles Vlcek moved and Richard Jensen seconded a motion to amend the main motion by changing the Foreign Language requirement from two years to one year. The motion to amend was defeated.
*MOTION NO. 2280F Jim Peterson moved and Roger Fouts seconded a motion to change the proposed required course pattern to a recommended course pattern for high school students who wish to attend CWU. The motion was defeated.
Motion no. 2280 passed as amended by a unanimous voice vote and the new admission requirements for freshmen planning to attend CWU are as follows:

ENGLISH

4 years of English (including instruction in at least one year each of Literature and Composition. Other courses may include Journalism, Creative or Exploratory Writing, Speech, etc.)

OLD BUSINESS

1. RECONSIDERATION OF ADMISSION REQUIREMENTS - continued

MATHEMATICS	2 years of Mathematics (including Algebra and Geometry). It is recommended that students wishing to major in Mathematics, Pre-engineering, Biology, Chemistry, Medical Technology or Physics take Advanced Algebra and Trigonometry. Algebra taken prior to the ninth grade is accepted.
SCIENCE	2 years of Science with one year of a laboratory. It is recommended that students wishing to major in Pre-engineering, Biology, Chemistry, Medical Technology or Physics take a third year of Science.
SOCIAL STUDIES	2½ years of Social Studies (including instruction in at least one year of History and U.S. Government)
FOREIGN LANGUAGE	2 years of Foreign Language. It is recommended that students take two years of a single foreign language.
OTHER	2 additional years of credit in either the performing or fine arts, or any of the above five subject areas.

2. RECONSIDERATION OF MANUFACTURING ENGINEERING TECHNOLOGY PROGRAM

Motion no. 2278 (defeated on May 2, 1984) was reopened for discussion subsequent to the presentation by Bo Beed of a petition asking the Senate to reconsider proposed changes in the Manufacturing Engineering Technology program.

Bo Beed reviewed the constituent parts of the proposed B.S. in Manufacturing Engineering Technology, and a packet of pertinent materials was distributed to Senators. The program is tailored to meet accreditation guidelines as specified by the Accreditation Board for Engineering and Technology, and was developed in consultation with Kent Randall, Dean of the School of Technology at Weaver State and member of the Board of Accreditation for Engineering and Technology. According to Bo Beed, accreditation is essential to the program because it would access students to involvement with many companies (via co-op and internship) from which CWU students are presently excluded.

Discussion followed and Senators questioned Bo Beed as to the particulars of the proposed program. It was pointed out that the course content included in Pre-Calculus courses at CWU is precisely the subject matter that the Accreditation Board wishes to have covered, and also that the Mathematics Department may be able to offer a Technical Calculus course to meet the special needs of this program.

*MOTION NO. 2283 Richard Jensen moved and Carolyn Schactler seconded a motion to close debate on the proposed B.S. in Manufacturing Engineering Technology. A roll call vote was requested and the motion was defeated. Fourteen (14) voted Yes; seventeen (17) voted no.

*MOTION NO. 2284 Robert Jacobs moved and Roger Fouts seconded a motion to extend the meeting by continuing debate until 5:15 p.m., at which time the question would be called. The motion carried by the required 2/3's majority.

Some Senators felt that approval of this large B.S. degree would lead to inadvertent evolution of CWU from a liberal arts institution into somewhat of a poly-technical school as other departments propose to increase their major credit requirements for reasons similar to those cited in the Manufacturing Engineering Technology case. Questions arose as to the reallocation of resources (faculty, funds) that would be necessary to accommodate an increasing number of large and technical programs, and also as to the ways in which the character of CWU's student population might change as the university evolves. Some were of the opinion that these issues warranted a campus-wide discussion prior to their resolution.

Others felt that larger programs proposed for specific reasons should be weighed individually on their own merits, that CWU should be a multi-faceted university that grows and changes as the need arises, and that it would be inconsistent not to allow the upgrading of programs at a time when admission requirements are being upgraded.

Question was called on Motion no. 2278 and a roll call vote was requested. The motion carried. Twenty-seven (27) Senators voted Yes; four (4) Senators voted No.

The curriculum changes approved by the passage of Motion no. 2278 appear on pages 667 and 668 of the University Curriculum Committee minutes.

The meeting was adjourned at 5:25 p.m..

FACULTY SENATE REGULAR MEETING

3:10 p.m., Wednesday, May 16, 1984

SUB 204-205

- I. ROLL CALL
- II. CHANGES TO AGENDA
- III. APPROVAL OF MINUTES- May 2, 1984
- IV. CORRESPONDENCE
- V. REPORTS
 - 1. CHAIR
 - a. Budget & Enrollment Notes
 - b. WWU's Research Funding Proposal
 - 2. SENATE ACADEMIC AFFAIRS COMMITTEE
 - 3. SENATE BUDGET COMMITTEE
 - 4. SENATE CODE COMMITTEE
 - 5. SENATE CURRICULUM COMMITTEE
 - 6. SENATE PERSONNEL COMMITTEE
- VI. OLD BUSINESS
 - 1. Admission Requirements for Incoming Freshmen
 - 2. Reconsideration of Manufacturing Engineering Technology Program
 - 3. Bylaw Change
- VII. NEW BUSINESS
- VIII. ADJOURNMENT

<u>SENATOR</u>	<u>ALTERNATE</u>
<u>John AGARS</u>	<u>Gary GALBRAITH</u>
<u>✓ Joel ANDRESS</u>	<u>John RESSLER</u>
<u>✓ Phil BACKLUND</u>	<u>John FOSTER</u>
<u>Don BLACK</u>	<u>Ron CAPLES-OSORIO</u>
<u>✓ Gerald BRUNNER</u>	<u>Bob WIEKING</u>
<u>✓ David CANZLER</u>	<u>Mark HALPERIN</u>
<u>✓ Lillian CANZLER</u>	<u>Larry WALD</u>
<u>Jim CASSIDY</u>	
<u>✓ Robert DEAN</u>	<u>Barney ERICKSON</u>
<u>✓ John DUGAN</u>	<u>Russell HANSEN</u>
<u>Clinton DUNCAN</u>	<u>Richard Hasbrouck</u>
<u>✓ Henry EICKHOFF</u>	<u>Ray WHEELER</u>
<u>✓ Betty EVANS</u>	<u>Jim HAWKINS</u>
<u>Carol FITZGERALD</u>	
<u>✓ Roger FOUTS</u>	<u>Larry SPARKS</u>
<u>Ed GOLDEN</u>	<u>Larry BUNDY</u>
<u>✓ Ken HARSHA</u>	<u>Wayne KLEMIN</u>
<u>✓ Beverly HECKART</u>	<u>Larry LOWTHER</u>
<u>✓ Jim HINTHORNE</u>	<u>Don RINGE</u>
<u>✓ Robert JACOBS</u>	<u>Jim BROWN</u>
<u>✓ Richard JENSEN</u>	<u>Timothy STRONG</u>
<u>Chester KELLER</u>	<u>Jay BACHRACH</u>
<u>✓ Kelton KNIGHT</u>	<u>E. E. BILYEU Rosco TOLMAN</u>
<u>✓ Bob LAPEN</u>	<u>John CARR</u>
<u>Clair LILLARD</u>	<u>Herbert BORBE</u>
<u>Robert MITCHELL</u>	
<u>✓ Jim NYLANDER</u>	<u>Stan SORENSON</u>
<u>✓ Jim PETERSON</u>	<u>Clayton DENMAN</u>
<u>✓ Owen PRATZ</u>	<u>Frank Nelson</u>
<u>✓ Carolyn SCHACTLER</u>	<u>David GEE</u>
<u>David SHORR</u>	<u>Joe SCHOMER</u>
<u>✓ Eric THURSTON</u>	<u>Pat O'SHAUGHNESSY</u>
<u>✓ Bill VANCE</u>	<u>Erlice KILLORN</u>
<u>✓ John VIFIAN</u>	<u>Ned TOOMEY</u>
<u>✓ Charles VLCEK</u>	<u>Bill CRAIG</u>
<u>✓ Don WISE</u>	<u>Wells McINELLY</u>
<u>Tom YEH</u>	<u>Ann DONOVAN</u>

VISITORS PLEASE SIGN

5/16/84

Don Adlesman

Lee Comstock

Helmi S. Habib

Don Skupe

Bo Beck

Kent Richards

Jan Jenner

Ron Caples - Osorio (A)

Roseo Tolman

Central
Washington
University



Assistant Dean and Director
of Certification

School of Professional Studies
Ellensburg, Washington 98926

RECEIVED

MAY 10 1984

FACULTY SENATE

MEMORANDUM

TO: Dr. Phil Backlund, Chair
Faculty Senate

FROM: Ronald M. Frye *Rmf*

DATE: May 9, 1984

RE: Committee Preference

I have served on the Energy Advisory Committee since it was formed either four or five years ago. I feel it is time that others have the chance to serve in that capacity; therefore, I would like to request that I be replaced on that committee.

jlg

5/16/84

B A L L O T

Position: C H A I R

1984-85 Senate Executive Committee

Nominees:

Phil Backlund

B A L L O T

Position: V I C E - C H A I R

1984-85 Senate Executive Committee

Nominees:

Tim Young

Ken Marsha

B A L L O T

Position: S E C R E T A R Y

1984-85 Senate Executive Committee

Nominees:

Don Black

B A L L O T

Position: A T - L A R G E

1984-85 Senate Executive Committee

Nominees:

Robert Mitchell

Kelton Knight

5-16 m. Terry, dated

RECEIVED
MAY 10 1984
FACULTY SENATE

MEMO

TO: Dr. Phil Backlund, Chairman
Faculty Senate

FROM: Dr. G. W. Beed, T-IE Department Chairman *GB*

RE: Opportunity to be on Faculty Senate Agenda on May 16, 1984

DATE: May 8, 1984

I would appreciate it very much if you would allow me the opportunity to talk to the Faculty Senate about the Manufacturing Engineering Technology program.



May 7, 1984

TO: Faculty Senate

We, the undersigned, request the Senate to reconsider their vote on the Manufacturing Engineering Technology Degree. Ref. Faculty Code, Sec. 1.60.

B.W. Beal

Y. H. Bunn

W. H. Woodford

Ken Calhoun

Robert M. Burch

Stanley C. Woodley

Tim J. Hetherington

Ray J. [unclear]

Robt. L. Sanderson

Robert S. Lynch

Janet L. Gye

Lois S. [unclear]

John G. [unclear]

Lou Clark

Jan F. [unclear]

John Pearson

Dean Nicholson

Scott Ricard

Jan [unclear]

Robert [unclear]

Alan [unclear]

Larry Smith

Robert N. [unclear]

[unclear]

Patricia Lacey

Eric Beardsley

George [unclear]

Alvin [unclear]

B. Helms

E. Kellogg

D. Johns

William S. [unclear]

Byron Deshaw

Larry A. [unclear]

Kenneth O. [unclear]

Helmi S. Halib

PRESENT POLICY

RECOMMENDED MODIFICATIONS

NEW POLICY WOULD READ

4 years of English
(one year of
Literature and one
year of Composition)

Delete the parentheses as students are required to have one year of Composition and one year of Literature to graduate from high school.

4 years of English (including Journalism, Creative or Exploratory Writing, Speech, etc.)

delete a laboratory

3 years of Mathematics
(including Algebra and
Geometry)

Reduce to 2 years and clarify. It is recommended that a third year of Math be taken - Advanced Algebra and Trigonometry. Also, that Algebra taken prior to the ninth grade be accepted.

2 years of Mathematics. In addition, it is recommended that Advanced Algebra and Trigonometry be taken. Also, that Algebra taken prior to the ninth grade is accepted.

3 years of Natural
Science (at least one
laboratory science)

Reduce to 2 years. The modification under consideration here is to reduce the requirement to two years and to strongly recommend that students wishing to major in Pre-engineering, Biology, Chemistry, Medical Technology, or Physics, take a third year of Science.

2 years of Science with one year of a laboratory. It is recommended that students wishing to major in Pre-engineering, Biology, Chemistry, Medical Technology or Physics take a third year of Science.

2 1/2 years of Social
Science (at least one
year of History and
one year of Civics)

Delete the History and Civics as they are required for high school graduation.

2 1/2 years of Social Studies.

2 years of a single
Foreign Language

Delete the word single.

2 years of Foreign Language.

Add one year of an additional elective credit.

2 other years of credit in either the performing or fine arts, or any of the above five subject areas.

14 1/2 credits

14 1/2 credits

Jan Pepper
5-16-84

IF WE KEEP OUR PRESENT POLICY OF: 4 English 3 Math
 3 Science 2 1/2 Social Science
 2 Foreign Language

MOCK SCHEDULE

1ST YEAR

2ND YEAR

1st Semester

2nd Semester

1. *English 1
2. *Math (Alg.)
3. *Science
4. Foreign Language 1
5. *Elective (typing, etc.)
6. *P.E.

1. *English 2
2. *Math (Alg.)
3. *Science
4. Foreign Lang. 2
5. Electives (typing)
6. *P.E.

1st Semester

2nd Semester

1. *English 3
2. *Math Geometry
3. *Science Bio.
4. Foreign Lang. 3
5. *Occup. Ed.
6. *P.E.

1. *English 4
2. *Math Geometry
3. *Science Bio.
4. Foreign Lang. 4
5. *Occup. Ed.
6. *P.E.

3RD YEAR

4TH YEAR

1. *English 5
2. Math Adv. Alg.
3. Science (Chem. or physics)
4. *Soc. Science (U.S.Hist)
5. Traffic Safety
6. Personal Growth (?)

1. *English 6
2. Math Trig.
3. Science (Chem. or physics)
4. Soc. Science (U.S.Hist.)
5. Health
6. Personal Growth

1. English 7
2. *Soc. Science (U.S.Hist.)
3. *Soc. Science (Cont. Prob)
4. Art, Music, Comp. Sci.,
Voc-Tech.
5. Dist. Ed. (?)

1. English 8
2. *Soc. Science (U.S.Hist.)
3. *Soc. Science (Cont. Prob.)
4. Art, Music, Comp. Sci.
5. Dist Ed. (?)

COMMENTS

Remember, there are also individual high school requirements students must fulfill. This restricts some of these courses that many college-bound students typically take: Art (1 yr), Music (1 or 2 yrs), Computer Science classes, industrial arts, a third year of foreign language, math or science, home economics, as well as personal growth courses. This causes more difficulty for students involved in band.

Comparison of Requirements For Course Pattern

University of Washington

English - 3 years
Math - 3 years (Alg., Geom., Trig.)
Science - 1 year of Lab
Social Science - 2 years
Foreign Language - 2 years
Plus 3 additional years from these above
courses of study

14 total credits

Admission acceptance based on this, WPCT
scores and GPA - the INDEX

Central Washington University

October 1983

English - 4 years (1 yr of Lit and
1 yr of comp)
Math - 3 years (Alg., Geom.)
Natural Science - 3 years (1 lab)
Social Science - 2½ years (at least one
of History and one of Civics)

14½ total credits

Admission acceptance based on this and
2.5 GPA

CWU Anticipated Revision - see attached
sheet

Washington State University

To be approved soon!?

English - 4 years
Math (course work up to Adv. Alg-
Trig.)
Science - 2 years (1 lab)
Social Science - 3 years
Foreign Language - 2 years

They are discussing an "Index
System" for acceptance similar to
the University of Washington

1. Western Washington University indicated they are investigating a set of course requirements. Beginning discussion stage at present.
2. Evergreen State College - Beginning to discuss the issue.
3. Eastern Washington University - No movement in this direction.

English	9	
Speech	3	
Reasoning	5	
PE	<u>2</u>	
	19	19
Arts & Humanities		15
Social & Behavioral Sciences		15
Natural Sciences		5

REQUIRED COURSES:

MATH 163.1	Pre-Calculus I	5	
MATH 163.2	Pre-Calculus II	5	
MATH 172.1	Calculus	5	
PHYS 111	Introductory Physics-Mechanics and Heat	5	
PHYS 112	Introductory Physics-Electricity and Magnetism	5	
PHYS 113	Introductory Physics-Sound and Light	5	
CHEM 181	General Chemistry	5	
MET 211	Structural Systems I	4	
MET 212	Structural Systems II	5	
MET 213	Technical Dynamics	5	
MET 418	Mechanical Design I	5	
MET 423	Computer Aided Design and Manufacturing	4	
TIE 165	Engineering Drawing I	4	
TIE 255	Machining	4	
TIE 271	Basic Electricity	5	
TIE 310	Hydraulics/Pneumatics	4	
TIE 345	Production Technology	4	
TIE 351	Metallurgy-Materials and Processes	4	
TIE 355	Advanced Machining and NC Programming	4	
TIE 374	Basic Electronics	4	
TIE 375	Applied Digital Controls	3	
TIE 388	Tool Design	4	
TIE 465	Descriptive Geometry	3	
TIE 495	Senior Project or TIE 490	6	

CHOOSE 8 credits from three TIE courses listed below

TIE 257	Casting Processing	4	
TIE 357	Welding	4	
TIE 382	Plastics and Composite Materials	4	
CPSI 101	Survey of Computer Science	4	
MS 221	Introduction to Decision Sciences	5	
AOM 385	Business Communications	5	
MGT 335	Principles of Production	<u>5</u>	

TOTAL 134 134

TOTAL TO GRADUATE 188

		<u>Required</u>	<u>Have</u>
<u>Communications</u>		14	17
English	9		
Speech	3		
Report Writing	<u>5</u>		
	17		
<u>Reasoning</u>		5	5
<u>PE</u>		2	2
<u>Social Science & Humanities</u>		30	30
<u>Basic Science</u>		18	25
Biology	5		
Chemistry	5		
Physics	<u>15</u>		
	25		
<u>Math</u>		18	20
163.1, 163.2	10		
Calculus	5		
MS 221	<u>5</u>		
	20		
TECHNICAL CREDITS		72	80
Computer Science		4	4
Production		<u>5</u>	<u>5</u>
			188

FallWinterSpring

	English 101	3	English 102	3	Speech	3
	Math 130.1	5	Math 163.1	5	Math 163.2	5
	TIE 165	4	Soc Sci	5	CPSC 101	4
	Soc Sci	<u>5</u>	TIE 255	<u>4</u>	TIE 271	<u>5</u>
51		17		17		17

	Phy 111	5	Phy 112	5	Phy 113	5
	Math 172.1	5	Chem 181	5	Humanities	5
	MET 211	4	MET 212	5	MET 213	5
	PE	<u>1</u>	PE	<u>1</u>		
		15		16		15

46

	English 301	3	Bio	5	TIE 355	4
	AOM 385	5	TIE 310	4	MS '221	5
	TIE 351	4	TIE 374	4	TIE 465	3
	TIE 345	<u>4</u>	TIE 257	<u>4</u>	TIE 382	<u>4</u>
		16		17		16

49

	MGT 335	5	TIE 388	4	Soc Sci	5
	MET 418	5	MET 423	4	Humanities	5
	TIE 375	3	Humanities	5		
	MET 495	<u>2</u>	MET 495	<u>2</u>	MET 495	<u>2</u>
		15		15		12

42

188

SOCIETY OF MANUFACTURING ENGINEERS SUPPLEMENTAL CRITERIA
TO

"Criteria for Accrediting Program in Engineering Technology"

MANUFACTURING ENGINEERING TECHNOLOGY

- ction) IV. CRITERIA. -C. Curriculum Elements
- Item 1. Technical Sciences--It is imperative that students have knowledge in statics and dynamics, strength of materials, mechanisms, thermodynamics or heat transfer, electricity and electronics, fluid dynamics, computer science, a materials science or metallurgy. It would be desirable if all of the subjects included could be covered even though some only superficially. Some of the above must be included. The number of subjects and credits would depend on the primary thrust of the curriculum. The burden of proof is on the curriculum director.
- Item 2. Technical Specialities
- a. Technical Skills and Techniques--at least one manufacturing area such as metalcutting, metalforming, etc. should be emphasized with a second area studied in depth, but probably with less emphasis than the primary one. There must be sufficient amount of skill taught to that the graduate will be capable of production work in the emphasis area as a technologist or technician. CAM and CIM should be emphasized in all curricula since they are now being applied to almost all areas of manufacturing. An in depth understanding of the tooling, machinery and methods of the area of emphasis is a necessity. In all cases, students must pursue those courses relating to computer aided manufacturing regardless of how they may be classified in the curriculum (i.e., N/C, CAD/CAM, CIM).
- b. Technical Design Courses--These courses should provide the student with a general knowledge of the entire manufacturing process from material selection through final shipping. Courses that would be very helpful to all manufacturing students include, but are not limited to: Plant Layout, Material Handling, Machine Design, Controls, Quality Assurance, Manufacturing System Design, Manufacturing Cost Analysis, and Safety Engineering.
- Capstone Course--Some part of the last year of the curriculum should be devoted to a project course. The student's technical expertise, level of communication, technical skills and ability to visualize and develop a product can all be tested. In an associate degree program, this may be a very limited course.
- Item 4. Basic Science and Mathematics
- b. Basic Science-- The basic sciences must include Physics with a laboratory, and Chemistry (where time and credits permit). Beyond these the earth sciences would be appropriate.
- c. Mathematics--Algebra, Trigonometry, Analytical Geometry, and Calculus should be treated as separate mathematics subjects and not as part of a technical science or technical speciality course. Additional mathematics subjects may be appropriate such as Statistics or Computer Mathematics that may fit the needs of the curriculum.
- ction) IV. CRITERIA. -K. Industrial Advisory Committees
- An Industrial Advisory Committee must be established to help in areas such as curriculum development, laboratory development, and student and faculty development and should be constituted of knowledgeable individuals representing manufacturing engineers, technologists, and technicians.

7/2/82 LLF

/rav

October 13, 1983

MANUFACTURING ENGINEERING TECHNOLOGY ADVISORY COMMITTEE, CENTRAL WASHINGTON UNIVERSITY

Michael J. Brice, Operations Manager
John Fluke Mfg. Co., Inc.
P. O. Box C9090
M.S. 170G
Everett, WA 98206

Phone: (206) 356-5880

Steve Burns, Systems Analyst
Boeing Computer Services
P. O. Box 24346
Mail Stop 4E08
Seattle, WA 98124

Phone: (206) 767-1412

Gary Hansen, Vice President of Engineering
Red Dot Corporation
495 Andover Park East
Seattle, WA 98188

Phone: (206) 575-3840

Willard Krigbaum, Senior Project Engineer
Pacific Car and Foundry Company
1400 N. Fourth Street
Renton, WA 98055

Phone: (206) 251-7675

Dave Moulton, Director Operations
Sundstrand Data Corporation
Overlake Industrial Park
Redmond, WA 98052

Phone: (206) 885-3711

Cliff Olofson, Vice President of Operations
Quinton Instrument Company
2121 Terry Avenue
Seattle, WA 98121

Phone: (206) 223-7373

Roger Powell, P.E.
Advisor, Manufacturing Engineering Technology
Highline Community College
Midway, WA 98031

Phone: (206) 878-3711
ex. 524

Guy L. Younie, Manager
Manufacturing Technology
Boeing Aerospace Company
P. O. Box 3999, M/S 1F-41
Seattle, WA 98124

Phone: (206) 655-8334

ACCREDITATION BOARD OF ENGINEERING & TECHNOLOGY (ABET)

Accredited Programs in
Manufacturing Engineering & Technology
Year Ending September, 1983

ENGINEERING

Manufacturing Engineering

Bachelor's Degree Program

Boston University
Utah State University (Opt. in Mech. Engr.)

Master's Degree Program

University of Massachusetts

ENGINEERING TECHNOLOGY

Manufacturing Engineering
Technology

Associate Degree Program

Central Piedmont Community College
Forsyth Technical Institute
Hartford State Technical College
* University of Nebraska at Omaha
Ricks College
Thames Valley State Technical College
Waterbury State Technical College

Manufacturing Engineering
Technology

Bachelor Degree Program

Arizona State University
East Tennessee State University
* University of Nebraska at Omaha
New Jersey Institute of Technology
Oklahoma State University
Pittsburg State University
Rochester Institute of Technology
Weber State College
Wichita State University
Milwaukee School of Engineering
Murray State University

Manufacturing Processes

California Polytechnic State University

Manufacturing Technology

Brigham Young University
University of Houston
Memphis State University
Indiana-Purdue at Ft. Wayne (Opt. in Mech. Tech.)
Bradley University (Mech. Design Opt./& Operations Opt.)



Education Department
Society of Manufacturing Engineers
One SME Drive
Dearborn, Michigan 48121
(313) 271-1500

* Both Associate and Bachelor's Degrees ABET accredited

MOTION: 2283To close debate on proposed
B.S. in Mfg. Engineering Technology

5/16/84

SENATOR	AYE 14	NAY 17	ABSTAIN	ALTERNATE
Clint Duncan				John Meany <i>Richard Westbrook</i>
John Vifian	✓			Ned Toomey
Beverly Heckart		✓		Larry Lowther
Richard Jensen	✓			Timothy Strong
Jim Cassidy Michael Caine	✓			
Jim Hinthorne	✓			Don Ringe
David Shorr				Joe Schomer
John Dugan		✓		Russ Hansen
Bill Vance		✓		Erlice Killorn
Ed Golden				Larry Bundy
Robert Dean	✓			Barney Erickson
Ken Harsha		✓		Wayne Klemin
Jim Peterson		✓		Clay Denman
Bob Mitchell				
Owen Pratz	✓			
Carolyn Schactler	✓			David Gee
Phil Backlund				John Foster
Eric Thurston				Pat O'Shaughnessy
Gerald Brunner		✓		Bob Wieking
Kelton Knight	✓			E.E. Bilyeu
Lillian Canzler		✓		Larry Wald
John Agars				Gary Galbraith
Charles Vlcek		✓		Bill Craig
Don Wise		✓		Wells McInelly
Bob Lapen	✓			John Carr
<i>Steve Williams</i>	✓			
Betty Evans		✓		Jim Hawkins
Roger Fouts	✓			Larry Sparks
Clair Lillard		✓		Herbert Borbe
Robert Jacobs		✓		Jim Brown
Don Black		✓		Ron Caples
Jim Nylander		✓		Stan Sorenson
Joel Address		✓		John Ressler
Carol Fitzgerald Jeff Casey		✓		
Chester Keller		✓		Jay Bachrach
Tom Yeh	✓			Ann Donovan
Henry Eickhoff	✓			Ray Wheeler
David Canzler	✓			Mark Halperin

MOTION: 2278 Pages 667+668 of UCC minutes -

5/16/84

Program Change (B.S. Manufacturing Engineering Technology)

SENATOR	AYE 27	NAY 4	ABSTAIN	ALTERNATE
Clint Duncan				John Meany Richard Haddock
John Vifian	✓			Ned Toomey
Beverly Heckart		✓		Larry Lowther
Richard Jensen	✓			Timothy Strong
Jim Cassidy Michael Caine	✓			
Jim Hinthorne	✓			Don Ringe
David Shorr				Joe Schomer
John Dugan	✓			Russ Hansen
Bill Vance	✓			Erlice Killorn
Ed Golden				Larry Bundy
Robert Dean	✓			Barney Erickson
Ken Harsha	✓			Wayne Klemin
Jim Peterson	✓			Clay Denman
Bob Mitchell				
Owen Pratz	✓			
Carolyn Schactler	✓			David Gee
Phil Backlund				John Foster
Eric Thurston				Pat O'Shaughnessy
Gerald Brunner	✓			Bob Wieking
Kelton Knight	✓			E.E. Bilyeu
Lillian Canzler	✓			Larry Wald
John Agars				Gary Galbraith
Charles Vlcek	✓			Bill Craig
Don Wise	✓			Wells McInelly
Bob Lapen	✓			John Carr
Steve Williams	✓			
Betty Evans	✓			Jim Hawkins
Roger Fouts	✓			Larry Sparks
Clair Lillard	✓			Herbert Borbe
Robert Jacobs	✓			Jim Brown
Don Black	✓			Ron Caples
Jim Nylander		✓		Stan Sorenson
Joel Andress	✓			John Ressler
Carol Fitzgerald Jeff Casey	✓			
Chester Keller		✓		Jay Bachrach
Tom Yeh	✓			Ann Donovan
Henry Eickhoff	✓			Ray Wheeler
David Canzler		✓		Mark Halperin

March 29, 1984

667

passed 5/16/84

CURRICULUM PROPOSALS APPROVED BY THE UNIVERSITY
CURRICULUM COMMITTEE AND FORWARDED TO THE SENATE

TECHNICAL AND INDUSTRIAL EDUCATION

COURSE ADDITIONS

T-IE 441. Structural Timber Framing (3). Prerequisite: T-IE 266, T-IE 311 and T-IE 346. A comprehensive study of the materials, design and erection of wood structures.

T-IE 311. Structures (5). Prerequisites: Math 163.2 and Phy 111 or consent of instructor. Introductory statics and strengths of materials. Forces, stresses, equilibrium, principles of structures including trusses, beams and columns.

PROGRAM CHANGE

AS IT APPEARS

MANUFACTURING ENGINEERING TECHNOLOGY

	Credits
T-IE 255, Metal Machining.....	4
T-IE 257, Foundry.....	4
T-IE 265, Engineering Drawing II.....	4
T-IE 271, Basic Electricity.....	5
T-IE 310, Hydraulics/Pneumatics.....	4
T-IE 345, Production Technology.....	4
T-IE 351, Metallurgy.....	4
T-IE 355, Advanced Metal Machining.....	4
T-IE 357, Welding.....	4
T-IE 363, Machine Drafting Technology OR	
T-IE 388, Tool Design.....	4
T-IE 374, Basic Electronics.....	4
T-IE 382, Basic Industrial Plastics.....	4
T-IE 385, Industrial Design.....	3
SE 386, Occupational Safety and Health.....	3
T-IE 465, Descriptive Geometry.....	3
T-IE 490, Contracted Field Experience OR	
T-IE 495 A,B,C, Senior Project I, II, III.....	6
MATH 165, Plane Trigonometry.....	3
MS 221, Introduction to Decision Sciences.....	5
MGT 335, Principles of Production.....	5
MGT 380, Organizational Management.....	4
MGT 435, Production Management.....	5
ACCT 301, Managerial Accounting Analysis.....	5
COM 345, Business and Professional Speaking.....	4
CPSC 101, Survey of Computer Science.....	4
AOM 385, Business Communications.....	5

104

PROPOSED

MANUFACTURING ENGINEERING TECHNOLOGY

REQUIRED COURSES:

MATH 163.1	Pre-Calculus I	5
MATH 163.2	Pre-Calculus II	5
MATH 172.1	Calculus	5
PHYS 111	Introductory Physics-Mechanics and Heat	5
PHYS 112	Introductory Physics-Electricity and Magnetism	5
PHYS 113	Introductory Physics-Sound and Light	5
CHEM 181	General Chemistry	5

March 29, 1984

668

passed 5/16/87

CURRICULUM PROPOSALS APPROVED BY THE UNIVERSITY CURRICIULUM COMMITTEE AND FORWARDED TO THE SENATE

TECHNICAL AND INDUSTRIAL EDUCATION CONTINUED
PROPOSED PROGRAM CHANGE

MET 211	Structural Systems I	4
MET 212	Structural Systems II	5
MET 213	Technical Dynamics	5
MET 418	Mechanical Design I	5
MET 423	Computer Aided Design and Manufacturing	4
TIE 165	Engineering Drawing I	4
TIE 255	Machining	4
TIE 271	Basic Electricity	5
TIE 310	Hydraulics/Pneumatics	4
TIE 345	Production Technology	4
TIE 351	Metallurgy-Materials and Processes	4
TIE 355	Advanced Machining and NC Programming	4
TIE 374	Basic Electronics	4
TIE 375	Applied Digital Controls	3
TIE 388	Tool Design	4
TIE 465	Descriptive Geometry	3
TIE 495	Senior Project <u>or</u> TIE 490	6
CPSC 101	Survey of Computer Science.	4
MS 221	Introduction to Decision Sciences	5
AOM 385	Business Communications	5
MGT 335	Principles of Production.	5

CHOOSE 8 credits from three TIE courses listed below

TIE 257	Casting Processing.	4
TIE 357	Welding	4
TIE 382	Plastics and Composite Materials.	4
TOTAL		134

This includes the deletion of the second paragraph of the introductory statement listed in the catalog.

OCCUPATIONAL EDUCATION

COURSE ADDITIONS

OC ED 533. Occupational Education Facilities Management (3). Principles governing the planning, procurement, maintenance and utilization of occupational facilities and equipment.

OC ED 537. Advisory Groups, School and Community Relations (3). The concepts and techniques to maintain effective community relations including coordinating active advisory groups for occupational education programs.

COURSE DELETIONS

- OC ED 563. Cooperative Vocational Programs (3).
- OC ED 564. Continuing Occupation Programs (3).
- OC ED 562. Preparatory Programs (3).
- OC ED 561. Principles and Philosophy (3).
- OC ED 554. Research in Occupational Education (3).

passed 5/2/84

Not seen from file