Submit originals and one copy and electronic copy to Governance/Faculty Senate Office (email electronic copy to fysemin@uaf.edu)

PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR/MINOR)

<table>
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<tr>
<th>SUBMITTED BY:</th>
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<th>TVC/CRCD</th>
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<tbody>
<tr>
<td>Department</td>
<td>Process Technology</td>
<td></td>
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<tr>
<td>Prepared by</td>
<td>Assistant Professor Brian Ellingson</td>
<td></td>
</tr>
<tr>
<td>Email Contact</td>
<td><a href="mailto:ffbec@uaf.edu">ffbec@uaf.edu</a></td>
<td>Brian Ellingson</td>
</tr>
<tr>
<td>Phone</td>
<td></td>
<td>455-2868</td>
</tr>
<tr>
<td>Faculty Contact</td>
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See [http://www.uaf.edu/uafgov/faculty/cd](http://www.uaf.edu/uafgov/faculty/cd) for a complete description of the rules governing curriculum & course changes.

PROGRAM IDENTIFICATION:

<table>
<thead>
<tr>
<th>DEGREE PROGRAM</th>
<th>Process Technology</th>
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<tbody>
<tr>
<td>Degree Level:</td>
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<tr>
<td>(i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)</td>
<td>A.A.S.</td>
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A. CHANGE IN DEGREE REQUIREMENTS: (Brief statement of program/degree changes and objectives)

The degree requirements are being modified to require CHEM F100x rather than the PHYS F116x course. The objective is to require the students to have 1 physics course and 1 chemistry course as the natural science requirement for the A.A.S. degree, rather than 2 physics courses.
B. CURRENT REQUIREMENTS AS IT APPEARS IN THE CATALOG:

Process Technology

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.uaf.edu/programs/protech/

A.A.S. DEGREE

Minimum Requirements for Degree: 63 credits

Downloadable PDF

The process technology program prepares students for employment as operations technicians in the process industry, which includes oil and gas production, mining and milling, transportation and refining, chemical manufacturing, power generation, utilities, wastewater treatment facilities maintenance, and food processing.

This A.A.S. degree program incorporates technical and academic courses covering topics such as pumps and turbines, instrumentation, safety and quality control. Summer internships give students valuable practical experience and exposure to the true nature of process technology careers.

Major — A.A.S. Degree

1. Complete the general university requirements.

2. Complete the A.A.S. degree requirements.

3. Demonstrate competence in computer technology skills (through the Process Technology program assessment) or complete one of the following:*  
   DRT F110—Computer Literacy for Technology (3)  
   or C10S F150—Computer Business Applications (3)  
   or a program advisor-approved computer applications course (3)—3 credits

4. Complete the following program major requirements**:  
   PHYS F115X—Physical Science I (4)  
   and PHYS F116X—Physical Science II (4)  
   or 8 credits of program advisor-approved natural science courses—8 credits  
   PRT F101—Introduction to Process Technology—3 credits  
   PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness—3 credits  
   PRT F130—Process Technology I: Equipment—4 credits  
   PRT F140—Industrial Process Instrumentation I—3 credits  
   PRT F144—Industrial Process Instrumentation II—3 credits  
   PRT F230—Process Technology II: Systems—4 credits  
   PRT F231—Process Technology III: Operations—4 credits  
   PRT F250—Process Technology Troubleshooting—3 credits  
   PRT F255—Process Technology Quality—1 credit  
   Major elective credits**—9 credits

5. Minimum credits required:—63 credits

* Student must earn a C grade or better in each course.
** Electives must be approved by the Process Technology Program advisor.
C. Proposed Requirements as it will appear in the catalog with these changes:
(Underline new wording strike-through old wording and use complete catalog format)

Process Technology

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.uaf.edu/programs/protech/

A.A.S. Degree

Minimum Requirements for Degree: 63 credits

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Major — A.A.S. Degree

1. Complete the general university requirements.

2. Complete the A.A.S. degree requirements.

3. Demonstrate competence in computer technology skills (through the Process Technology program assessment) or complete one of the following:
   - DRT F110—Computer Literacy for Technology (3)
   - or CIOS F150—Computer Business Applications (3)
   - or a program advisor-approved computer applications course (3)—3 credits

4. Complete the following program major requirements*:
   - PHYS F115X—Physical Science I (4)
   - and PHYS F116X—Physical Science II (4) and CHEM F100x—Chemistry in Complex Systems (4)
   - or 8 credits of program advisor-approved natural science courses—8 credits
   - PRT F101—Introduction to Process Technology—3 credits
   - PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness—3 credits
   - PRT F130—Process Technology I: Equipment—4 credits
   - PRT F140—Industrial Process Instrumentation I—3 credits
   - PRT F144—Industrial Process Instrumentation II—3 credits
   - PRT F230—Process Technology II: Systems—4 credits
   - PRT F231—Process Technology III: Operations—4 credits
   - PRT F250—Process Technology Troubleshooting—3 credits
   - PRT F255—Process Technology Quality—1 credit
   - Major elective credits**—9 credits

5. Minimum credits required—63 credits

* Student must earn a C grade or better in each course.
** Electives must be approved by the Process Technology Program advisor.
D. ESTIMATED IMPACT
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

None

E. IMPACTS ON PROGRAMS/DEPTS:
What programs/departments will be affected by this proposed action?
Include information on the Programs/Departments contacted (e.g., email, memo)

Chemistry department – Chemistry F100x- Chemistry in Complex Systems and its content were discussed with Lawrence Duffy, Interim Dean Chemistry and Biochemistry. The content of this course satisfies the Industry recommendation for chemistry knowledge. This course can be accessed by the Process Technology students.

F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:
Description of the student learning outcomes assessment process.)

The assessment for the program remains the same.

JUSTIFICATION FOR ACTION REQUESTED
The purpose of the department and campus-wide curriculum committees is to scrutinize program/degree change applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. If you drop a course, is it because the material is covered elsewhere? Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the program is not compromised as a result.

This degree change is in response to the Alaska Process Industry Career Consortium (APICC) recommendation to require students to complete a Physics and a Chemistry science course as part of their degree. Requiring these two science courses will bring the TVC/UAF Process Technology A.A.S. degree in line with Industry recommendations. Discussion with the Interim Dean of the Chemistry department (Lawrence Duffy) determined that the CHEM F100x chemistry course was the appropriate course for the Process Technology majors.
<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of: Process Technology</th>
<th>Date: 1/19/09</th>
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<tbody>
<tr>
<td>Signature, Chair, (College/School Curriculum Council for:</td>
<td>Date: 3-2-09</td>
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<tr>
<td>Signature, Director, College/School of: TVC/CRCD</td>
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<tr>
<td>Signature, Dean, College/School of: TVC/CRCD</td>
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**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

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<tr>
<th>Signature, Chair, UAF Faculty Senate Curriculum Review Committee</th>
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