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

### PROGRAM/DEGREE REQUIREMENT CHANGE (MAJOR/MINOR)

<table>
<thead>
<tr>
<th>SUBMITTED BY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department: Process Technology/Power Generation</td>
</tr>
<tr>
<td>Prepared by: Assistant Professor Brian Ellingson</td>
</tr>
<tr>
<td>Email Contact: <a href="mailto:bbee@uaf.edu">bbee@uaf.edu</a></td>
</tr>
<tr>
<td>College/School: TVC/CRCD</td>
</tr>
<tr>
<td>Phone: 455-2868</td>
</tr>
<tr>
<td>Faculty Contact: Brian Ellingson</td>
</tr>
</tbody>
</table>

See [http://www.uaf.edu/uafgov/faculty/cc](http://www.uaf.edu/uafgov/faculty/cc) for a complete description of the rules governing curriculum & course changes.

### PROGRAM IDENTIFICATION:

<table>
<thead>
<tr>
<th>DEGREE PROGRAM</th>
<th>Power Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Level: (i.e., Certificate, A.A., A.A.S., B.A., B.S., M.A., M.S., Ph.D.)</td>
<td>Certificate</td>
</tr>
</tbody>
</table>

### A. CHANGE IN DEGREE REQUIREMENTS:

(Brief statement of program/degree changes and objectives)

The change to the Power Generation certificate is to replace the WMT 101-Introduction to Welding (4 credits) with the currently offered WMT 103- Welding I (3 credits) course. WMT 103 will cover metallurgy while the WMT 101 course did not.
Power Generation

College of Rural and Community Development
Tanana Valley Campus
907-455-2906

Minimum Requirements for Certificate: 38 credits

The power generation program will help students develop entry-level skills needed in industrial and commercial electrical power generation and maintenance. Courses combine the technical know-how and hands-on experience necessary to develop entry level workers in a variety of power generation and industrial fields. Students will become familiar with the operation and maintenance of the standard equipment encountered in the power generation industry.

Certificate Program

1. Complete the General Education Requirements.

2. Complete the Program Pre-requisites.

3. Complete the following program (major) requirements:*
   - PGEN F101—Intro to Power Generation, Distribution & Alternative Energy—3 credits
   - PGEN F102—Basic Electricity for Power Generation Operators—4 credits
   - PGEN F103—Introduction to Power Generation: Maintenance—4 credits
   - PGEN F104—Gas & Steam Turbines; Co-Generation and Combined Cycle Technologies—4 credits
   - PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness—3 credits
   - PRT F120—Water Quality Management for Process Industries—4 credits
   - PRT F140—Industrial Process Instrumentation I—3 credits
   - WMT F101—Introduction to Welding—4 credits

4. Minimum credits required—38 credits
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)

Power Generation

College of Rural and Community Development
Tanana Valley Campus
907-455-2906

Minimum Requirements for Certificate: 38 37 credits

The power generation program will help students develop entry-level skills needed in industrial and commercial electrical power generation and maintenance. Courses combine the technical know-how and hands-on experience necessary to develop entry level workers in a variety of power generation and industrial fields. Students will become familiar with the operation and maintenance of the standard equipment encountered in the power generation industry.

Certificate Program

1. Complete the General Education Requirements.
2. Complete the Business Core.
3. Complete the following program (major) requirements:*  
   PGEN F101—Intro to Power Generation, Distribution & Alternative Energy—3 credits  
   PGEN F102—Basic Electricity for Power Generation Operators—4 credits  
   PGEN F103—Introduction to Power Generation: Maintenance—4 credits  
   PGEN F104—Gas & Steam Turbines; Co-Generation and Combined Cycle Technologies—4 credits  
   PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness—3 credits  
   PRT F120—Water Quality Management for Process Industries—4 credits  
   PRT F140—Industrial Process Instrumentation I—3 credits  
   WMT F101—Introduction to Welding—4 credits  
   WMT F103—Welding I—3 credits
4. Minimum credits required— 38 37 credits
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)

None. The WMT F103 course is currently offered and available to the Power Generation certificate students.

F. IF MAJOR CHANGE - ASSESSMENT OF THE PROGRAM:

Description of the student learning outcomes assessment process.

The learning outcomes remain the same for this program.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committee 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 change is in response to the Power Generation Advisory Committee recommendation that students in the certificate program take a more appropriate welding course for this field of work. The welding program coordinator also concurs with this recommendation. Students taking the WMT F103 welding course will attain the level of welding and metallurgy knowledge required for the certificate program. The previously required WMT F101 course concentrated more on several different types of welding, while not covering the metallurgy sufficiently.
<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of: Process Technology / Power Generation</th>
<th>Date 10/8/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature, Chair, College/School Curriculum Council for:</td>
<td></td>
</tr>
<tr>
<td>Date 10-14-08</td>
<td></td>
</tr>
<tr>
<td>Signature, Director, College/School of: TVC/CRCD</td>
<td></td>
</tr>
<tr>
<td>Date 10-14-08</td>
<td></td>
</tr>
<tr>
<td>Signature, Dean, College/School</td>
<td></td>
</tr>
<tr>
<td>CRCD</td>
<td></td>
</tr>
</tbody>
</table>

**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

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