

# Curriculum Committee Meeting Agenda

## Voting Committee Members

Chair – Mimi Pentz (Nurs/Hlth Occ)

Vice Chair – Andrea LoMonaco (Business)

Kristen Booth (Pre-Coll/ESOL)

Pam Morse (Math)

Robert Wells-Clark (Tec/Trad)

Jenn Kamrar (Art/Comm)

Rebecca Schwartz (Inst Dean)

Emilie Miller (Science)

Stephen Shwiff (Soc Sci & Ed)

## Non-Voting Committee Members

Jarett Gilbert (VP Instructional Services)

Mary Martin (Student Services/Registrar)

Susan Lewis (Curriculum)

## Support Staff

Sara Wade (Instructional Services)

## Guests

Jim Pytel, Kalie Brunton

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## **December 7, 2023 3:30 – 5:00 pm**

The Dalles Campus, room 1.162 (Board Room, Building 1 next to cafe)

Hood River Center, room 1.209 (conference room)

Zoom log-in: <https://cgcc.zoom.us/j/84308320742> Meeting ID: 843 0832 0742; phone in: 1-253-215-8782

Approval of November 16, 2023 minutes <sup>1</sup> (Mimi)

## Old Business

1. Contact Hour Definitions – continued from 6.10.22, 9.9.22, 10.6.22, 11.3.22 (Kristen) (Postponed until January 25 meeting;
  - **ACTION ITEM:** Kristen, Pam & Jarett will work on creating a chart outlining contact hour requirements for each modality to help guide and give resources to instructors. Will bring to the January meeting for the committee to review.

## Submissions <sup>2</sup>

1. Jim Pytel & Robert Wells-Clark (3:35 – 4:00pm)
  - USACE Level 1 (New Limited Entry Certificate)
  - USACE Level 2 – Mechanics (New Limited Entry Certificate)
  - USACE Level 2 – Operators and Electricians (New Limited Entry Certificate)

## New Business

1. none

## Discussion Items

1. none

Next Meeting: January 25, 2024

Attachments: <sup>1</sup> November 16, 2023 Minutes; <sup>2</sup> Submissions: 3 New Cert.

## Curriculum Committee Minutes

November 16, 2023

Location: Zoom

### PRESENT:

#### Voting Committee Members

Chair- Mimi Pentz (Nursing/Health)

Kristen Booth (Pre-College)

Robert Wells-Clark (Ind/Trade)

Jenn Kamrar (Art,Cult,Comm)

Emilie Miller (Science)

Pam Morse (Math)

Rebecca Schwartz (Inst Dean)

Stephen Shwiff (Social Science)

#### Non-Voting Committee Members

Jarett Gilbert (VP Instructional Services)

Susan Lewis (Curriculum)

Mary Martin (Student Services)

#### Supporting Staff

#### Guests

Sara Mustonen

### ABSENT

#### Voting Members

Vice Chair- Andrea LoMonaco (Business)

#### Non-Voting Committee Members

Item	Discussion	Action
<b>Call to Order:</b>	Chair Mimi called the meeting to order at 3:38pm.	
<b>Submissions:</b>	none	
<b>New Business:</b>		
2. Transferability Requirements for Gen Ed Designation <ul style="list-style-type: none"><li><b>ACTION ITEM:</b> Data request before next meeting: How many students successfully transfer from CGCC to 4-year universities, compared to the amount of CGCC students that</li></ul>	Susan reported that the Action Item regarding data was still pending as the information had not been received as of yet. Mary informed the committee that the National Clearing House had not provided the data as of yet.  Stephen provided information regarding "Gen Ed" designation descriptions at three OPUs – OSU, PSU and EOU. <ul style="list-style-type: none"><li>Gen Ed Requirements not done the same at each institution.</li></ul>	

<p>complete an AAS degree from CGCC. (Susan)</p> <ul style="list-style-type: none"> <li>• <b>ACTION ITEM:</b> Gather the Gen Ed requirements from OSU, PSU, EOU. (Stephen)</li> </ul>	<ul style="list-style-type: none"> <li>• OSU – Bach Core Requirements – different categories that we would have to fit into</li> <li>• PSU – similar in that it has categories, but they are listed as freshman and sophomore inquiry, including required courses for entering at certain levels</li> <li>• EOU – has gen ed transfer core</li> </ul> <p>OPUs only care about how they accept in transfer, and do not consider whether the community college designates the course as Gen Ed or not. Therefore, probably better to send course to departments and ask how it fits into their requirements after course is approved.</p> <p>It was suggested that OPUs are confused why an institution would concern itself about transfer when approving a course.</p> <p>Discussion with liberal arts private colleges/universities confirmed that they make sure that they learn how the course transfers prior to approval.</p> <p>Debate on whether there was significant work load associated with contacting universities to make this determination:</p> <ul style="list-style-type: none"> <li>• Curriculum Office provides email template and contact list for university transfer specialists. Generally, if the template is used, asking directly whether the course transfers as general education, major requirement, major elective, elective only, the first response from the university is complete. If request is put forward as “How does this course transfer?” Usually there is substantial back and forth when this is the opening request.</li> <li>• Different experience described how they had to go back and forth with the university 4 or 5 times to get information. Not a good use of faculty time.</li> </ul> <p>Question regarding whether there is harm in retaining the 1 university requirement:</p> <ul style="list-style-type: none"> <li>• Not common that courses that are requesting Gen Ed status can’t find at least one university that accepts it as Gen Ed.</li> <li>• Some courses are denied because of one or two words in the content, like CPL. (Noted that CPL is more than just a word and brings with it significant issues that are currently under debate throughout the system.)</li> </ul>	
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	<ul style="list-style-type: none"> <li>• It's the principle that we should be able to determine ourselves whether a course meets Gen Ed standards.</li> <li>• Adds assurance that the course has the robustness and quality that represents Gen Ed beyond our institution. Confirming our designating the course as Gen Ed.</li> <li>• Work load for faculty.</li> </ul> <p><b>Motion: Remove the requirement for Gen Ed designation that one university must accept the course as a general education elective.</b></p>	<p>Motion: Rebecca 2nd: Stephen 5 in favor – 3 opposed – 0 abstains</p>
<b>Discussion Items:</b>		
1. Standard Prerequisites	<p>Was not yet discussed at IC, and not on the agenda for the next day's meeting. Issue extends into additional areas which include Dev Ed Redesign discussions, Anthology data clean-up, prerequisites as barriers, and placement. Therefore, it has broader ramifications than the original concern over having a standard requisite package to ensure student success in General Education designated courses.</p> <p>Decided that the discussion item will be shelved until further notice. Standard Prerequisites will remain as currently approved.</p>	
Opt-Out of Standard Prerequisites Request – form update (added agenda item)	<p>Susan brought to the attention of the committee that the Opt-Out Request Form is out of date, still includes courses that are no longer being taught at CGCC (RD 90 and 115, WR 90, MTH 20). In light of the conversation regarding the work going forward on Standard Prerequisites, Susan asked if she should go ahead and update the Opt-Out Request form now or wait until conclusions are made regarding Standard Prerequisites. The committee agreed to updating the form at this time.</p>	
<b>Meeting Adjourned: 4:50pm</b>	<b>Rebecca motioned to end the meeting, Kristen 2nd. All in favor.</b>	<b>Next Meeting: December 7, 2023</b>

# Columbia Gorge Community College

CC date 12.7.23  
 CC decision \_\_\_\_\_  
 CC vote \_\_\_\_\_

## NEW CERTIFICATE REQUEST

Submitted by: Jim Pytel & Kalie Brunton	Email: <a href="mailto:jpytel@cgcc.edu">jpytel@cgcc.edu</a> kbrunton@cgcc.edu	Phone: 541-506-7157	Department: Tech & Trades – EM-Tech
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(Double click on check boxes to activate dialog box)

### SECTION #1 OVERVIEW

Proposed Title:	USACE Level 1		Proposed Credits:	30
Reason for new certificate:	To respond to US Army Corps of Engineers' request for a different model of training, repackaging existing courses to streamline instructional delivery that is specific to the needs of power plant trainees. Students are current employees of USACE.		Requested implementation term:	Fall 2024
Is there impact on other areas of instruction?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explanation of issues and how they are being resolved:	Has the certificate been validated by the Advisory Committee?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, have you talked with impacted departments and resolved any and all possible issues?	<input type="checkbox"/> Yes <input type="checkbox"/> No		Date of Advisory Committee meeting:	10.27.23
Is this a Statewide Certificate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If so, has the certificate been approved by the consortium?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Is this a Related Certificate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this a Career Pathway?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is a Related Certificate or a Career Pathway, what is the base degree?	Electro-Mechanical Engineering Technology AAS			

## SECTION #2 PREREQUISITES AND OUTCOMES

Note that degree/certificate/program entry prerequisites are only enforceable in limited entry programs. Program prerequisites for open entry programs only have meaning when they are representative of prerequisites associated to specific courses within the program. Prerequisites that students are not able to test out of using multiple measures result in hidden degree/certificate requirements and should be avoided. (Courses that may be tested out of using multiple measures include: WR 115, MTH 65, MTH 95, MTH 98, MTH 105, MTH 111, MTH 112.)

### PROPOSED PRE and/or COREQUISITES

Course Number	Course Title or Placement level	Requisites	Credits
MTH 65 with "B" or better	Beginning Algebra	Placement into MTH 65	4
WR 115 or IRW 115	Introduction to Expository Writing <i>or</i> Critical Reading and Writing	Placement into WR 115 <i>or</i> <a href="#">ABE 75</a> or <a href="#">ABE 70</a> or <a href="#">GED 70</a> or equiv placement	4
Is this a limited entry program? Students must apply, via the department for program entry.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### PROPOSED OUTCOMES

Describe what the student will be able to do "out there" (in their life roles as worker, family member, community citizen, global citizen or lifelong learners). Outcomes must be measurable through the application of direct and/or indirect assessment strategies. Three to six outcomes are recommended. Start each outcome with an active verb, completing the sentence starter provided. (See [Writing Learning Outcomes](#) on the curriculum website.)

*Students who successfully complete this certificate will be able to:*

1. Use electrical instrumentation safely.
2. Read and interpret schematics, ladder logic diagrams, data sheets and other electrical documentation.
3. Interpret hydraulic and pneumatic schematics and documentation.
4. Install, troubleshoot and maintain electrical control circuits.
5. Communicate technical data effectively.
- 6.

## SECTION #3 PROPOSED COURSEWORK

List all courses (course number, title, requisites and credits) in the term by term order that is to be displayed in the [catalog](#) certificate map. Enter electives below if applicable. The information you provide on this form will be reflected in the CGCC catalog pages. Please ensure it is correct. (If you need more lines to accommodate the courses, right click and insert rows.)

Course Number	Course Title	Requisites	Credits
Fall Yr 1			
EET 111	Electrical Circuit Analysis 1	MTH 65 with a "B" or better; WR 115 or IRW 115, or equivalent placement	5
Winter Yr 1			
EET 112	Electrical Circuit Analysis 2	EET 111	5
Spring Yr 1			
EET113	Electrical Circuit Analysis 3	ET 112 or department approval	5
Fall Yr 2			
MEC 123	Industrial Mechanical Systems	IRW 115 or WR 115 or equivalent placement; placement into MTH 65 or MTH 98	5
Winter Yr 2			
MEC 120	Hydraulics and Pneumatics	MTH 65 or equivalent placement	5
Spring Yr 2			
EET 141	Motor Control	EET 112	5
<b>Credit total</b>			30
<b>ELECTIVES</b> (if applicable)			
Course Number	Course Title	Requisites	Credits
	none		

#### SECTION #4 RELATED INSTRUCTION

**Certificates 45 credits or more require related instruction. Fill out a Template for Related Instruction located on the Curriculum web page.**

All courses identified as fulfilling the embedded related instruction requirement must have been reviewed and recommended by the Curriculum Committee and the details outlined on the CCOG.

#### SECTION #5 DEPARTMENT REVIEW

*"I vouch that this submission has been reviewed by the affiliated department chair and department dean/director and that they have given initial authorization for this submission. I am requesting that it be placed on the next Curriculum Committee agenda with available time slots. I understand that I am required to complete and submit, prior to the day my submission is reviewed by the Curriculum Committee, a Degree or Certificate Signature Form signed by the department chair and dean/director."*

Submitter	Email	Date
Jim Pytel & Kalie Brunton	<a href="mailto:jpytel@cgcc.edu">jpytel@cgcc.edu</a> <a href="mailto:kbrunton@cgcc.edu">kbrunton@cgcc.edu</a>	12.4.23
Department Chair (enter name of department chair): Jim Pytel		
Department Dean (enter name of department dean/director): Robert Wells-Clark		

Next steps:

1. Save the completed Certificate Request Form and submit as an e-mail attachment to [curriculum@cgcc.edu](mailto:curriculum@cgcc.edu) or [slewis@cgcc.edu](mailto:slewis@cgcc.edu).
2. If needed, attach the completed Related Instruction Template to the same e-mail.
3. Refer to the Curriculum Office website for the Curriculum Committee [meeting schedule and submission deadlines](#). You are encouraged to send submissions prior to the deadline so that the Curriculum Office may review and provide feedback.
4. Submissions will be placed on the next agenda with available time slots, and you will be notified of your submission's estimated time for review. The Curriculum Office will send a signature page to your department chair and department dean/director that may be completed electronically. Signature pages must be received by the Curriculum Office the day before the Curriculum Committee meeting for which the submission is scheduled. Submissions without signed signature pages will be postponed.
5. It is required for a representative to attend the Curriculum Committee meeting in which your submission is scheduled for review. The representative will be asked to describe the proposal and respond to any committee questions. Unanswered questions may result in a submission being rescheduled for further clarification.



# Columbia Gorge Community College

CC date 12.7.23  
 CC decision \_\_\_\_\_  
 CC vote \_\_\_\_\_

## NEW CERTIFICATE REQUEST

Submitted by: Jim Pytel / Robert Wells-Clark	Email: <a href="mailto:jpytel@cgcc.edu">jpytel@cgcc.edu</a> rclark@cgcc.edu	Phone: 541-506-7157	Department: Tech & Trades – EM-Tech
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(Double click on check boxes to activate dialog box)

### SECTION #1 OVERVIEW

Proposed Title:	USACE Level 2 – Mechanics		Proposed Credits:	39
Reason for new certificate:	To respond to US Army Corps of Engineers' request for a different model of training, repackaging existing courses to streamline instructional delivery that is specific to the needs of power plant trainees. Students are current employees of USACE.		Requested implementation term:	Fall 2024
Is there impact on other areas of instruction?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explanation of issues and how they are being resolved:	Has the certificate been validated by the Advisory Committee?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, have you talked with impacted departments and resolved any and all possible issues?	<input type="checkbox"/> Yes <input type="checkbox"/> No		Date of Advisory Committee meeting:	10.27.23
Is this a Statewide Certificate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If so, has the certificate been approved by the consortium?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Is this a Related Certificate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this a Career Pathway?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is a Related Certificate or a Career Pathway, what is the base degree?	Advanced Manufacturing and Fabrication AAS			

**SECTION #2 PREREQUISITES AND OUTCOMES**

Note that degree/certificate/program entry prerequisites are only enforceable in limited entry programs. Program prerequisites for open entry programs only have meaning when they are representative of prerequisites associated to specific courses within the program. Prerequisites that students are not able to test out of using multiple measures result in hidden degree/certificate requirements and should be avoided. (Courses that may be tested out of using multiple measures include: WR 115, MTH 65, MTH 95, MTH 98, MTH 105, MTH 111, MTH 112.)

**PROPOSED PRE and/or COREQUISITES**

Course Number	Course Title or Placement level	Requisites	Credits
	Completion of the USACE Level 1 certificate with a minimum 2.00 GPA		30
Is this a limited entry program? Students must apply, via the department for program entry.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**PROPOSED OUTCOMES**

Describe what the student will be able to do “out there” (in their life roles as worker, family member, community citizen, global citizen or lifelong learners). Outcomes must be measurable through the application of direct and/or indirect assessment strategies. Three to six outcomes are recommended. Start each outcome with an active verb, completing the sentence starter provided. (See [Writing Learning Outcomes](#) on the curriculum website.)

*Students who successfully complete this certificate will be able to:*

1. Produce welds to AWS D1.2, 2.2 and 1.6 in fillet and grooves using GMAW, SMAW and GTAW process.
2. Demonstrate knowledge of basic CNC operations and G Code
3. Manufacture product from conceptualization to reality through research and development.
4. Apply basic metallurgical concepts and basic materials science as they pertain to metals, creating better production results in manufacturing processes.
5. Demonstrate knowledge of necessary mathematical concepts as they apply to manufacturing.

**SECTION #3 PROPOSED COURSEWORK**

List all courses (course number, title, requisites and credits) in the term by term order that is to be displayed in the [catalog](#) certificate map. Enter electives below if applicable. The information you provide on this form will be reflected in the CGCC catalog pages. Please ensure it is correct. (If you need more lines to accommodate the courses, right click and insert rows.)

Course Number	Course Title	Requisites	Credits
Fall Yr 1			
MFG 195	Welding Technology I	none	3

MFG 150	Manufacturing Processes	Pre/Co: MFG 195	3
Winter Yr 1			
MFG 151	Fabrication Processes 1	MFG 150	3
MFG 280	Aluminum GTAW/TIG Welding	MFG 150, MFG 195	3
MFG 285	Stainless Steel GTAW/TIG Welding	MFG 150, MFG 195	3
Spring Yr 1			
MFG 286	Stainless Steel GTAW/TIG Fabrication 1	MFG 285	3
Fall Yr 2			
MFG 155	Blueprint Reading	MFG 195	3
MFG 201	Tube and Pipe Fabrication 1	MFG 150, MFG 155	3
Winter Yr 2			
MFG 156	Integrated Manufacturing 1	MFG 155	3
MFG 281	Aluminum GTAW/TIG Fabrication Process 1	MFG 280	3
MFG 202	Tube Fabrication	MFG 201	3
Spring Yr 2			
MFG 157	Integrated Manufacturing 2	MFG 156	3
MFG 203	Pipe Fabrication and Welding	MFG 201	3
<b>Credit total</b>			39
<b>ELECTIVES</b> (if applicable)			
<b>Course Number</b>	<b>Course Title</b>	<b>Requisites</b>	<b>Credits</b>
	none		

#### SECTION #4 RELATED INSTRUCTION

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Submitter	Email	Date
Jim Pytel / Robert Wells-Clark	<a href="mailto:jpytel@cgcc.edu">jpytel@cgcc.edu</a> <a href="mailto:rclark@cgcc.edu">rclark@cgcc.edu</a>	12.4.23
Department Chair (enter name of department chair): Jim Pytel		
Department Dean (enter name of department dean/director): Robert Wells-Clark		

#### Next steps:

1. Save the completed Certificate Request Form and submit as an e-mail attachment to [curriculum@cgcc.edu](mailto:curriculum@cgcc.edu) or [slewis@cgcc.edu](mailto:slewis@cgcc.edu).
2. If needed, attach the completed Related Instruction Template to the same e-mail.
3. Refer to the Curriculum Office website for the Curriculum Committee [meeting schedule and submission deadlines](#). You are encouraged to send submissions prior to the deadline so that the Curriculum Office may review and provide feedback.
4. Submissions will be placed on the next agenda with available time slots, and you will be notified of your submission's estimated time for review. The Curriculum Office will send a signature page to your department chair and department dean/director that may be completed electronically. Signature pages must be received by the Curriculum Office the day before the Curriculum Committee meeting for which the submission is scheduled. Submissions without signed signature pages will be postponed.
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# Columbia Gorge Community College

CC date 12.7.23  
 CC decision \_\_\_\_\_  
 CC vote \_\_\_\_\_

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Submitted by: Jim Pytel & Kalie Brunton	Email: <a href="mailto:jpytel@cgcc.edu">jpytel@cgcc.edu</a> <a href="mailto:kbrunton@cgcc.edu">kbrunton@cgcc.edu</a>	Phone: 541-506-7157	Department: Tech & Trades – EM-Tech
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(Double click on check boxes to activate dialog box)

### SECTION #1 OVERVIEW

Proposed Title:	USACE Level 2 – Operators and Electricians		Proposed Credits:	37
Reason for new certificate:	To respond to US Army Corps of Engineers’ request for a different model of training, repackaging existing courses to streamline instructional delivery that is specific to the needs of power plant trainees. Students are current employees of USACE.		Requested implementation term:	Fall 2024
Is there impact on other areas of instruction?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explanation of issues and how they are being resolved:	Has the certificate been validated by the Advisory Committee?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, have you talked with impacted departments and resolved any and all possible issues?	<input type="checkbox"/> Yes <input type="checkbox"/> No		Date of Advisory Committee meeting:	10.27.23
Is this a Statewide Certificate?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If so, has the certificate been approved by the consortium?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Is this a Related Certificate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this a Career Pathway?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If this is a Related Certificate or a Career Pathway, what is the base degree?	Electro-Mechanical Engineering Technology AAS			

## SECTION #2 PREREQUISITES AND OUTCOMES

Note that degree/certificate/program entry prerequisites are only enforceable in limited entry programs. Program prerequisites for open entry programs only have meaning when they are representative of prerequisites associated to specific courses within the program. Prerequisites that students are not able to test out of using multiple measures result in hidden degree/certificate requirements and should be avoided. (Courses that may be tested out of using multiple measures include: WR 115, MTH 65, MTH 95, MTH 98, MTH 105, MTH 111, MTH 112.)

### PROPOSED PRE and/or COREQUISITES

Course Number	Course Title or Placement level	Requisites	Credits
	Completion of the USACE Level 1 certificate with a minimum 2.00 GPA		30
Is this a limited entry program? Students must apply, via the department for program entry.			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### PROPOSED OUTCOMES

Describe what the student will be able to do "out there" (in their life roles as worker, family member, community citizen, global citizen or lifelong learners). Outcomes must be measurable through the application of direct and/or indirect assessment strategies. Three to six outcomes are recommended. Start each outcome with an active verb, completing the sentence starter provided. (See [Writing Learning Outcomes](#) on the curriculum website.)

*Students who successfully complete this certificate will be able to:*

1. Use electrical instrumentation safely.
2. Read and interpret schematics, ladder logic diagrams, data sheets and other electrical documentation.
3. Apply generator theory to manage reactive power requirements and conduct generator synchronization.
4. Install, troubleshoot and maintain electrical control circuits, including power electronic devices.
5. Communicate technical data effectively.
6. Program, network and interface programmable controllers with sensor inputs and actuator outputs.
- 7.

## SECTION #3 PROPOSED COURSEWORK

List all courses (course number, title, requisites and credits) in the term by term order that is to be displayed in the [catalog](#) certificate map. Enter electives below if applicable. The information you provide on this form will be reflected in the CGCC catalog pages. Please ensure it is correct. (If you need more lines to accommodate the courses, right click and insert rows.)

Course Number	Course Title	Requisites	Credits
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Fall Yr 1			
RET 223	Power Generation	none	5
EET 251	Digital Electronics 1: Programmable Logic Devices	EET 113	5
Winter Yr 1			
EET 252	Digital Electronic 2: Programmable Logic Devices	EET 251	5
EET 219	Programmable Logic Controllers	EET 251	3
Spring Yr 1			
MEC 124	Mechatronic Systems in Advanced Manufacturing	IRW 115 or WR 115, MTH 65 or equiv placement	3
Fall Yr 2			
EET 221	Semiconductor Devices and Circuits 1	EET 113	5
Winter Yr 2			
EET 231	Semiconductor Devices and Circuits 2	EET 221	5
EET 180	Industrial Computing	MTH 65 or equivalent placement	3
Spring Yr 2			
EET 273	Electronic Control Systems	EET 222	3
Credit total			37
ELECTIVES (if applicable)			
Course Number	Course Title	Requisites	Credits
	none		

#### SECTION #4 RELATED INSTRUCTION

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<i>Signature Form signed by the department chair and dean/director."</i>		
Submitter	Email	Date
Jim Pytel & Kalie Brunton	<a href="mailto:jpytel@cgcc.edu">jpytel@cgcc.edu</a> <a href="mailto:kbrunton@cgcc.edu">kbrunton@cgcc.edu</a>	11.29.23
Department Chair (enter name of department chair): Jim Pytel		
Department Dean (enter name of department dean/director): Robert Wells-Clark		

Next steps:

1. Save the completed Certificate Request Form and submit as an e-mail attachment to [curriculum@cgcc.edu](mailto:curriculum@cgcc.edu) or [slewis@cgcc.edu](mailto:slewis@cgcc.edu).
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