

CYPRESS COLLEGE CURRICULUM COMMITTEE

Tuesday, October 3, 2017

TLC) Teaching Learning Center in the LRC.

3:00 p.m.

AGENDA

PLEASE BE ON TIME...The meeting will begin promptly at 3:00 p.m. in the (TLC) Teaching Learning Center in the LRC. Your attendance is critical in helping to meet the curriculum needs of Cypress College. Remember if you are unable to attend please find an alternate representative.

Call to Order:

Mark Majarian, Chair

1. **Approval of September 26, 2017 minutes:** (attached)
2. **Chair Report**

Approvals

NEW COURSES					
COURSE ID	ACTION TAKEN	CLASS SIZE	CLASS SIZE JUSTIFICATION	EFF DATE	JUSTIFICATION
MATH 044 C Basic Accelerated Math Units:3 Lecture:0 Laboratory:6	* New Course * Prerequisite: none	35	Labs in which the instructor supervises students as they proceed in their work and answer questions, but does NOT provide extensive individualized feedback/evaluation on a regular basis.	2018 Fall	Offering this course is a required component of the Transformation Grant. It provides a self-paced opportunity for students to reach a transfer level math class in one semester.

REVISED COURSES					
COURSE ID	ACTION TAKEN	CLASS SIZE	CLASS SIZE JUSTIFICATION	EFF DATE	JUSTIFICATION
ENGR 102 C Engineering Design Graphics Units: 3 Lecture: 2 Laboratory: 4	* Outline Update * Title change *Catalog Description Update * Schedule Description Update * Remove Distance Education *Textbook Update * Student Learning Outcomes	25	Labs in which the instructor evaluates written analyses completed by students after lab sessions and provides extensive individualized feedback/evaluation on a regular basis. (e.g. problem sets, scientific experiments, vocational skills, lab reports	2018 Fall	Program Review Outline, catalog, schedule, title, and textbooks updated to better reflect course content.

ENGR 110 C Introduction to Engineering Units: 3 Lecture: 3 Laboratory: 0	* Outline Update * Catalog Description Update * Schedule Description Update * Prerequisites revalidated * Hybrid added * Textbook Update * Student Learning Outcomes	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds. The engineering facility field trips, which is part of the course, are also limited to a group of 20 - 25 students. Also throughout the class, students engage in group projects in form of research and presentation, construction of robots or bridges in groups.	2018 Fall	Program Review Outline, catalog, schedule and textbooks updated to better reflect course content.
ENGR 201 C Statics Units: 3 Lecture: 3 Laboratory: 0	* Outline Update * Catalog Description Update * Schedule Description Update * Prerequisite Revision and revalidation * Distance Education and Hybrid added * Textbook Update * Student Learning Outcomes	35	While the instructor does lecture, much of the class time focuses on discussion, group learning, and/or formal/informal student presentations.	2018 Fall	Program Review Outline, catalog, schedule and textbooks updated to better reflect course content. Revision is needed to reflect new requirements for transfer and advances in this field.
ENGR 205 C Advanced 3D Solid Modeling and Simulation Units: 3 Lecture: 2 Laboratory: 4	* Outline Update * Catalog Description Update * Schedule Description Update * Title change * Prerequisite revision and revalidations * Distance Education and Hybrid added * Textbook Update * Student Learning Outcomes	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds. Instructor also provides extensive individualized feedback/evaluation on a regular basis. (e.g. problem sets, vocational skills, reports)	2018 Fall	Program Review Outline, catalog, schedule, title and textbooks updated to better reflect course content. Revision was needed to address new trends in the industry and advancements in the field.

ENGR 210 C Electric Circuits Analysis Units: 5 Lecture: 4 Laboratory: 3	* Outline Update * Catalog Description Update * Schedule Description Update * Title change * Prerequisite revision and revalidations * Corequisite added * Textbook Update	25	Labs in which the instructor provides extensive individualized feedback/evaluation on a regular basis. (e.g. problem sets, scientific experiments, vocational skills, lab reports)	2018 Fall	Program Review Outline, catalog, schedule, title and textbooks updated to better reflect course content. Revisions to address recent changes in academic requirements and industry
ENGR 299 C Independent Study Units: .5-2 Lecture: 0-2 Laboratory: 0-6	* Outline Update * Catalog Description Update * Schedule Description Update * Prerequisite revalidate	25	Labs in which the instructor evaluates written analyses completed by students after lab sessions and provides extensive individualized feedback/evaluation on a regular basis. (e.g. problem sets, scientific experiments, vocational skills, lab reports)	2018 Fall	Program Review Outline, catalog, schedule updated to better reflect course content. Revision to address latest academic and industrial requirements.
MORT 299 C Work Experience Units: 1-4 Lecture: 1 Laboratory: 5-20	* Outline Update * Catalog Description Update * Schedule Description Update * Course number from MORT 085 C to MORT 299 C * Class size from 28 to 25 * Add Distance Education and Hybrid * Textbook Update * Student Learning Outcomes	25	Class time focuses on individualized instruction, student presentation time, and/or group learning. Accreditation standard: Student-teacher ratios must be available for review and must not exceed 30:1 overall in the funeral service program.	2018 Fall	Program Review Outline, catalog, schedule, course number and textbooks updated to better reflect course content. Revising program to comply with accreditation mandates, student enrollment preferences and survey responses, and advisory committee recommendations
PHOT 109 C Portrait Photography Units: 3 Lecture: 2 Laboratory: 3	* Outline Update * Catalog Description Update * Advisory revalidated * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds.	2018 Fall	Outline, catalog, and textbook updated to better reflect course content.

PHOT 200 C Conceptual Photography Units: 3 Lecture: 2 Laboratory: 4	* Catalog Description Update * Schedule Description Update * Advisories revalidated * Fee from \$20 to \$35 * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds.	2018 Fall	Catalog, schedule and textbook updated to better reflect course content.
PHOT 201 C Introduction to Professional Photo Units: 3 Lecture: 2 Laboratory: 4	* Outline Update * Advisory revalidated * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds.	2018 Fall	Outline and textbook updated to better reflect course content.
PHOT 202 C Contemporary Photography Units: 3 Lecture: 2 Laboratory: 4	* Catalog Description Update * Schedule Description Update * Fee from \$20 to \$35 * Advisories revalidated * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds.	2018 Fall	Catalog, schedule and textbook updated to better reflect course content.
PHOT 203 C Studio Lighting Techniques Units: 3 Lecture: 2 Laboratory: 4	* Outline Update * Catalog Description Update * Advisory revalidated * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds.	2018 Fall	Outline, catalog, and textbook updated to better reflect course content.
PHOT 204 C History of Photography Units: 3 Lecture: 2 Laboratory: 4	* Catalog Description Update * Schedule Description Update * Title change * Fee from \$20 to \$35 * Advisory revalidated * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds.	2018 Fall	Catalog, schedule, title and textbook updated to better reflect course content.

PHOT 206 C Studio Practices Units: 3 Lecture: 2 Laboratory: 4	* Outline Update * Catalog Description Update * Schedule Description Update * Advisory revalidated * Fee from \$20 to \$35 * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds.	2018 Fall	Outline, catalog, schedule, and textbook updated to better reflect course content.
PHOT 209 C Careers in Photography Units: 3 Lecture: 2 Laboratory: 4	* Outline Update * Catalog Description Update * Schedule Description Update * Advisory revalidated * Fee from \$20 to \$35 * Textbook Update	25	Most of the time the students are engaged in practicing the skill(s) they are learning and the instructor gives each student individual instruction as the class proceeds	2018 Fall	Outline, catalog, schedule, and textbook updated to better reflect course content.

RE-ACTIVATED DEGREES/CERTIFICATES																																							
DEGREE		EFF DATE	JUSTIFICATION																																				
Engineering Technology	<p>ASSOCIATE IN SCIENCE DEGREE DRAFTING ENGINEERING TECHNOLOGY</p> <p>Required courses are listed in suggested sequence:</p> <table border="1"> <tr> <td></td> <td></td> <td>Units</td> </tr> <tr> <td>MATH130 C</td> <td>Survey of Calculus</td> <td>4</td> </tr> <tr> <td>MATH141 C</td> <td>College Algebra</td> <td>4</td> </tr> <tr> <td>MATH142 C</td> <td>Trigonometry</td> <td>4</td> </tr> <tr> <td>PHYS201 C</td> <td>College Physics I</td> <td>4</td> </tr> <tr> <td>PHYS202 C</td> <td>College Physics II</td> <td>4</td> </tr> <tr> <td>ENGR102 C</td> <td>Engineering Design Graphics</td> <td>3</td> </tr> <tr> <td>ENGR110 C</td> <td>Introduction to Engineering</td> <td>3</td> </tr> <tr> <td>ENGR201 C</td> <td>Statics</td> <td>3</td> </tr> <tr> <td>ENGR205 C</td> <td>Advanced 3D Solid Modeling and Simulation</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Units</td> <td></td> <td>32</td> </tr> </table>			Units	MATH130 C	Survey of Calculus	4	MATH141 C	College Algebra	4	MATH142 C	Trigonometry	4	PHYS201 C	College Physics I	4	PHYS202 C	College Physics II	4	ENGR102 C	Engineering Design Graphics	3	ENGR110 C	Introduction to Engineering	3	ENGR201 C	Statics	3	ENGR205 C	Advanced 3D Solid Modeling and Simulation	3				Total Units		32	2018 Fall	Reactivated - Due to recent changes within industry, addition of new course in drafting and CAD (ENGR 205 C) in Cypress College and action initiated by academic senate about creating new degrees in engineering technology. Title change on ENGR 102 C Total units from 29 to 32
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MATH130 C	Survey of Calculus	4																																					
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NEW DEGREES/CERTIFICATES

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Media Arts Design	<p>Advertising and Emerging Technologies</p> <p>Required courses are listed in suggested sequence.</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>MAD201 C</td> <td>3D Typography for Media Design</td> <td>3</td> </tr> <tr> <td>MAD107 C</td> <td>Motion Graphics I</td> <td>3</td> </tr> <tr> <td>MAD116 C</td> <td>Graphic Design I</td> <td>3</td> </tr> <tr> <td>MAD207 C</td> <td>Projection Mapping for Live Entertainment</td> <td>3</td> </tr> <tr> <td>MAD100 C</td> <td>Introduction to Media Arts Design-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD101 C</td> <td>Introduction to Media Arts Design-Win</td> <td>3</td> </tr> <tr> <td>MAD102 C</td> <td>Introduction to WEB Graphics-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD103 C</td> <td>Introduction to WEB Graphics-Win</td> <td>3</td> </tr> <tr> <td colspan="2">Total Units</td> <td>18</td> </tr> </tbody> </table>			Units	MAD201 C	3D Typography for Media Design	3	MAD107 C	Motion Graphics I	3	MAD116 C	Graphic Design I	3	MAD207 C	Projection Mapping for Live Entertainment	3	MAD100 C	Introduction to Media Arts Design-Mac	3		or		MAD101 C	Introduction to Media Arts Design-Win	3	MAD102 C	Introduction to WEB Graphics-Mac	3		or		MAD103 C	Introduction to WEB Graphics-Win	3	Total Units		18	2018 Fall	This certificate is created for students focusing on gaining employment in the field of advertising and graphic design.
		Units																																					
MAD201 C	3D Typography for Media Design	3																																					
MAD107 C	Motion Graphics I	3																																					
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Media Arts Design	<p>Character and Background design for Animation and Game Art</p> <p>Required courses are listed in suggested sequence.</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>ART120 C</td> <td>Two-Dimensional Design</td> <td>3</td> </tr> <tr> <td>ART185 C</td> <td>Beginning Life Drawing</td> <td>3</td> </tr> <tr> <td>ART244 C</td> <td>Illustration</td> <td>3</td> </tr> <tr> <td>MAD204 C</td> <td>Visual Development and Layout</td> <td>3</td> </tr> <tr> <td>MAD100 C</td> <td>Introduction to Media Arts Design-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD101 C</td> <td>Introduction to Media Arts Design-Win</td> <td>3</td> </tr> <tr> <td>MAD132 C</td> <td>Electronic Paint-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD133 C</td> <td>Electronic Paint-Win</td> <td>3</td> </tr> <tr> <td colspan="2">Total Units</td> <td>18</td> </tr> </tbody> </table>			Units	ART120 C	Two-Dimensional Design	3	ART185 C	Beginning Life Drawing	3	ART244 C	Illustration	3	MAD204 C	Visual Development and Layout	3	MAD100 C	Introduction to Media Arts Design-Mac	3		or		MAD101 C	Introduction to Media Arts Design-Win	3	MAD132 C	Electronic Paint-Mac	3		or		MAD133 C	Electronic Paint-Win	3	Total Units		18	2018 Fall	This certificate is designed for traditional and digital artist who want to gain an in depth knowledge of illustrating and developing content for time-based media projects.
		Units																																					
ART120 C	Two-Dimensional Design	3																																					
ART185 C	Beginning Life Drawing	3																																					
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Media Arts Design	<p>Film Aesthetics and Technology</p> <p>Required courses are listed in suggested sequence:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>MAD191 C</td> <td>Film Noir Genre</td> <td>3</td> </tr> <tr> <td>MAD195 C</td> <td>Science Fiction Film Genre</td> <td>3</td> </tr> <tr> <td>MAD196 C</td> <td>Silent Film Genre</td> <td>3</td> </tr> <tr> <td>MAD197 C</td> <td>Western Film Genre</td> <td>3</td> </tr> <tr> <td>MAD198 C</td> <td>Horror Film Genre</td> <td>3</td> </tr> <tr> <td colspan="2">Total Units</td> <td>15</td> </tr> </tbody> </table>			Units	MAD191 C	Film Noir Genre	3	MAD195 C	Science Fiction Film Genre	3	MAD196 C	Silent Film Genre	3	MAD197 C	Western Film Genre	3	MAD198 C	Horror Film Genre	3	Total Units		15	2018 Fall	The certificate will focus the on film aesthetics, history and technology. The knowledge of these film elements is needed for film, cinema and video production students to have a well-rounded understanding of the film medium.															
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Media Arts Design	<p>Motion Design</p> <p>Required courses are listed in suggested sequence:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>MAD107 C</td> <td>Motion Graphics I</td> <td>3</td> </tr> <tr> <td>MAD187 C</td> <td>Motion Graphics II</td> <td>3</td> </tr> <tr> <td>MAD201 C</td> <td>3D Typography for Media Design</td> <td>3</td> </tr> <tr> <td>MAD193 C</td> <td>Introduction to 2D Animation</td> <td>3</td> </tr> <tr> <td>MAD203 C</td> <td>Intermediate 2D Animation</td> <td>3</td> </tr> <tr> <td>MAD207 C</td> <td>Projection Mapping for Live Entertainment</td> <td>3</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td colspan="2">Total Units</td> <td>18</td> </tr> </tbody> </table>			Units	MAD107 C	Motion Graphics I	3	MAD187 C	Motion Graphics II	3	MAD201 C	3D Typography for Media Design	3	MAD193 C	Introduction to 2D Animation	3	MAD203 C	Intermediate 2D Animation	3	MAD207 C	Projection Mapping for Live Entertainment	3				Total Units		18	2018 Fall	This certificate provides entry level industry skills in the fields of graphic design, animation, game art and live action production.												
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Media Arts Design	<p>Social Media Production and Marketing</p> <p>Required courses are listed in suggested sequence:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>MAD100 C</td> <td>Introduction to Media Arts Design-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD101 C</td> <td>Introduction to Media Arts Design-Win</td> <td>3</td> </tr> <tr> <td>MAD102 C</td> <td>Introduction to WEB Graphics-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD103 C</td> <td>Introduction to WEB Graphics-Win</td> <td>3</td> </tr> <tr> <td>MAD106 C</td> <td>Social Media Vlog Production</td> <td>3</td> </tr> <tr> <td>MAD111 C</td> <td>Introduction to Media Writing</td> <td>3</td> </tr> <tr> <td>MM105 C</td> <td>Introduction to Media Aesthetics</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MM100 C</td> <td>Introduction to Electronic Media</td> <td>3</td> </tr> <tr> <td colspan="2">Total Units</td> <td>15</td> </tr> </tbody> </table>			Units	MAD100 C	Introduction to Media Arts Design-Mac	3		or		MAD101 C	Introduction to Media Arts Design-Win	3	MAD102 C	Introduction to WEB Graphics-Mac	3		or		MAD103 C	Introduction to WEB Graphics-Win	3	MAD106 C	Social Media Vlog Production	3	MAD111 C	Introduction to Media Writing	3	MM105 C	Introduction to Media Aesthetics	3		or		MM100 C	Introduction to Electronic Media	3	Total Units		15	2018 Fall	The certificate is needed to focus study on a specific area of media creation for social media distribution.
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Media Arts Design	<p>Storyboarding Certificate</p> <p>Required courses are listed in suggested sequence:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>ART185 C</td> <td>Beginning Life Drawing</td> <td>3</td> </tr> <tr> <td>MAD200 C</td> <td>Storyboarding, Comics, Pre Visual</td> <td>3</td> </tr> <tr> <td>MAD210 C</td> <td>3D Storyboarding and Layout</td> <td>3</td> </tr> <tr> <td>MAD180 C</td> <td>Video Editing-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD181 C</td> <td>Video Editing-Win</td> <td>3</td> </tr> <tr> <td>MAD120 C</td> <td>3D Modeling-Mac</td> <td>3</td> </tr> <tr> <td></td> <td>or</td> <td></td> </tr> <tr> <td>MAD121 C</td> <td>3D Modeling-Win</td> <td>3</td> </tr> <tr> <td colspan="2">Total Units</td> <td>15</td> </tr> </tbody> </table>			Units	ART185 C	Beginning Life Drawing	3	MAD200 C	Storyboarding, Comics, Pre Visual	3	MAD210 C	3D Storyboarding and Layout	3	MAD180 C	Video Editing-Mac	3		or		MAD181 C	Video Editing-Win	3	MAD120 C	3D Modeling-Mac	3		or		MAD121 C	3D Modeling-Win	3	Total Units		15	2018 Fall	The Storyboarding certificate focuses on visual storytelling in the production of animation, live action and game art.						
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REVISED DEGREES/CERTIFICATES

DEGREE		EFF DATE	JUSTIFICATION																																																									
Engineering	<p>ASSOCIATE IN SCIENCE DEGREE PRE-ENGINEERING</p> <p>Required Courses are listed in suggested sequence:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>MATH150AC</td> <td>Calculus I</td> <td>4</td> </tr> <tr> <td>MATH150BC</td> <td>Calculus II</td> <td>4</td> </tr> <tr> <td>MATH250AC</td> <td>Multivariable Calculus</td> <td>4</td> </tr> <tr> <td>MATH250BC</td> <td>Linear Algebra and Differential Equations</td> <td>5</td> </tr> <tr> <td>PHYS221 C</td> <td>General Physics I</td> <td>4</td> </tr> <tr> <td>PHYS222 C</td> <td>General Physics II</td> <td>4</td> </tr> <tr> <td>PHYS223 C</td> <td>General Physics III</td> <td>4</td> </tr> <tr> <td>CHEM111AC</td> <td>General Chemistry I</td> <td>5</td> </tr> <tr> <td>ENGR110 C</td> <td>Introduction to Engineering</td> <td>3</td> </tr> <tr> <td>ENGR201 C</td> <td>Statics</td> <td>3</td> </tr> <tr> <td>ENGR210 C</td> <td>Electric Circuits Analysis</td> <td>5</td> </tr> </tbody> </table> <p>List A: Select 1 course from the following:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>ENGR220 C</td> <td>Programming and Problem-Solving in MATLAB</td> <td>3</td> </tr> <tr> <td>CHEM112 C</td> <td>General Chemistry II for Engineers</td> <td>4</td> </tr> <tr> <td>ENGR205 C</td> <td>Advanced 3D Solid Modeling and Simulation</td> <td>3</td> </tr> <tr> <td>ENGR 102 C</td> <td>Engineering Design Graphics</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Total Units</td> <td>51-52</td> </tr> </tbody> </table>			Units	MATH150AC	Calculus I	4	MATH150BC	Calculus II	4	MATH250AC	Multivariable Calculus	4	MATH250BC	Linear Algebra and Differential Equations	5	PHYS221 C	General Physics I	4	PHYS222 C	General Physics II	4	PHYS223 C	General Physics III	4	CHEM111AC	General Chemistry I	5	ENGR110 C	Introduction to Engineering	3	ENGR201 C	Statics	3	ENGR210 C	Electric Circuits Analysis	5			Units	ENGR220 C	Programming and Problem-Solving in MATLAB	3	CHEM112 C	General Chemistry II for Engineers	4	ENGR205 C	Advanced 3D Solid Modeling and Simulation	3	ENGR 102 C	Engineering Design Graphics	3				Total Units		51-52	2018 Fall	Move ENGR 102 from required courses to List A and adding ENGR 205 C. Creating elective list A with options between ENGR 220 C, CHEM 112 C, ENGR 205 C and ENGR 102 C, a new course required by engineering programs in four year schools Total units from 52 to 51-52
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PHYS221 C	General Physics I	4																																																										
PHYS222 C	General Physics II	4																																																										
PHYS223 C	General Physics III	4																																																										
CHEM111AC	General Chemistry I	5																																																										
ENGR110 C	Introduction to Engineering	3																																																										
ENGR201 C	Statics	3																																																										
ENGR210 C	Electric Circuits Analysis	5																																																										
		Units																																																										
ENGR220 C	Programming and Problem-Solving in MATLAB	3																																																										
CHEM112 C	General Chemistry II for Engineers	4																																																										
ENGR205 C	Advanced 3D Solid Modeling and Simulation	3																																																										
ENGR 102 C	Engineering Design Graphics	3																																																										
Total Units		51-52																																																										
Photography	<p>ADVERTISING AND ILLUSTRATIVE PHOTOGRAPHY CERTIFICATE</p> <p>Required courses are listed in suggested sequence:</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>PHOT103 C</td> <td>Intermediate Photography</td> <td>3</td> </tr> <tr> <td>PHOT201 C</td> <td>Introduction to Professional Photo</td> <td>3</td> </tr> <tr> <td>PHOT203 C</td> <td>Studio Lighting Techniques</td> <td>3</td> </tr> <tr> <td>PHOT206 C</td> <td>Studio Practices</td> <td>3</td> </tr> <tr> <td>PHOT209 C</td> <td>Careers in Photography</td> <td>3</td> </tr> <tr> <td>PHOT215 C</td> <td>Digital Photography</td> <td>3</td> </tr> <tr> <td>PHOT277 C</td> <td>Food Photography</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Total Units</td> <td>21</td> </tr> </tbody> </table>			Units	PHOT103 C	Intermediate Photography	3	PHOT201 C	Introduction to Professional Photo	3	PHOT203 C	Studio Lighting Techniques	3	PHOT206 C	Studio Practices	3	PHOT209 C	Careers in Photography	3	PHOT215 C	Digital Photography	3	PHOT277 C	Food Photography	3				Total Units		21	2018 Fall	Add new course PHOT 277 C																											
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