



Curriculum Committee

AGENDA

October 2, 2018

12:30pm

Berger Faculty Innovation Center

Members (13): J. Learned (Chair); P. Stegeman (Business & Applied Technology), S. Cooper (General Counseling), D. Greene (Kinesiology/ECE), E. Benavides (Social Sciences), J. An-Dunning (Library & Learning Resources), S. Gaete (Nursing & Health Sciences), A. Garcia (Adjunct), R. Guinn (Sciences & Engineering), L. Jackson (Arts & Media), J. Matthews (Math & Computer Science), V. Rossi Dean (Communication & Humanities), K. Hoang (Student Services/Special Programs)

Ex-Officio (non-voting): M. Jasso (Articulation Officer), J. Baker (VP Student Learning), (Student Representative)

Staff: J. Magbuhat (Curriculum & Catalog Specialist), A. Simmons (Curriculum & Catalog Specialist), C. Contopulos (Recorder)

1. **Call to Order and Presence of a Quorum (7)**
2. **Public Comments**
3. **Approval of Agenda**
4. **Approval of September 20, 2018 Minutes**
5. **Action** – Majority–8

I. CONSENT:

A. New Course Designator

1. **AIS** Applications and Information Systems
2. **FILM** Film
3. **ENGT** Engineering Technology (reactivation)

B. New Courses and Programs and/or Substantive Changes to Courses and Programs/2nd Reading

1. NEW COURSES

- a. **ESYS 012** Residential Solar Installation
- b. **ESYS 034** Lighting Efficiency Technology
Advisory: ESYS 005
- c. **FILM 095A** Film Work Experience

2. COURSE MODIFICATIONS

- c. **FILM 002A** Film Production I: Basic Film Production (*formerly RTV 010A*)
Change from ~~RTV 010A~~ to FILM 002A, change TOP code from: ~~060400 (Radio & Television)~~ to 061220 (Film Production), and change class size max from ~~45~~ to 24.
- d. **FILM 002B** Film Production II: Advanced Film Production (*formerly RTV 011A*)
Change from ~~RTV 011A~~ to FILM 002B, change TOP code from: ~~060400 (Radio & Television)~~ to 061220 (Film Production), and change class size max from ~~45~~ to 24.
- e. **FILM 002C** Film Production III: Capstone (*formerly RTV 012*)
Change from ~~RTV 012~~ to FILM 002C, and change class size max from ~~25~~ to 24.

- f. **FILM 003** Screenwriting (formerly RTV 009)
Change from ~~RTV 009~~ to FILM 003, add Distance Education modality, and change class size max from ~~25~~ to 24.
- g. **FILM 004** Cinematography (formerly RTV 013)
Change from ~~RTV 013~~ to FILM 004, and change class size max from ~~25~~ to 24.
- h. **FILM 005** On-Camera Acting Voice Over (formerly RTV 014)
Change from ~~RTV 014~~ to FILM 005, and remove TA 002 as an advisory.
- i. **FILM 006** Documentary Filmmaking (formerly RTV 015)
Change from ~~RTV 015~~ to FILM 006.
- j. **MUS 003** Music Theory III
Add Distance Education (Hybrid) modality.

3. **NEW PROGRAMS**

a. **BUILDING & ENERGY SYSTEMS PROFESSIONALS (BESP) AS DEGREE**

The Building Energy Systems Professional Associates of Science Degree is developed to offer students a broad overview of the energy conservation industry and includes cross-disciplinary courses in Energy Systems, Heating Ventilation and Air Conditioning, Architecture, Computer Information Systems, and Building Inspection Technology. The completion of the **Building Energy Systems Professional AS** degree is especially advantageous for the student who has the goal to obtain leadership positions. Electives are selected to support a concentration on industry specialties. Students will have the option to focus on particular energy sectors by choosing from various depths of study: Solar Systems, Building Control Systems Building Operator, Advanced Lighting Systems, or Zero Net Energy (ZNE) Technician. The student may choose their elective based on their immediate energy other defined degrees within the ZNE industry. Students will have the technical background that can lead to multiple industry-recognized credentials and careers as an Energy Auditor, Energy Consultant, ZNE Technician, HVACR Technician, Facility Management, Construction Management, and Solar Residential Technician.

Required Core Courses (17 units)

ESYS 004	Industrial Calculations.....	3
ESYS 005	Zero Net Energy Building Science	4
BIT 024	California Energy Codes	3
ARCH 011	Architectural Blueprint Reading.....	3
CIS 012	Professional Office Procedures	3
ESYS 095A	Energy Systems Technology Work Experience	1
Required Core Courses Subtotal		17

Supporting Degree Electives 23

Choose a minimum of 23 units from below. Students may choose a specialty by taking selected grouped courses.

Required Courses for Specialty in Building Automation Control

ACR 060	Air Conditioning & Refrigeration I.....	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
ACR 065	Air Conditioning & Refrigeration Electricity II	3
ACR 076	Facilities Maintenance - Chillers.....	3
ACR 090	Building Automation Fundamentals.....	3
ACR 091	Advanced Building Control Networks	3
ACR 092	Advanced Building Automation Networks & Programming.....	3

Required Courses for Specialty in Building Commissioning Technician

ACR 075	HVACR Systems Design	3
ACR 084	Boiler and Hydronic Heating	3
ACR 090	Building Automation Fundamentals.....	3
ACR 091	Advanced Building Control Networks	3
BIT 020	California Mechanical Codes	2

BIT 040	California Electrical Codes.....	2
ESYS 002	Electricity and Electrical Theory	3
ESYS 006	Fundamentals of Building Commissioning	3
ESYS 035	Advanced Lighting Controls.....	3

Required Courses for Specialty in Building Energy Consultant

ACR 075	HVACR Systems Design	3
ACR 077	Energy Conservation Methods for HVACR	3
ARCH 011	Architectural Blueprint Reading.....	3
BIT 020	California Mechanical Codes	2
BIT 024	California Energy Codes	3
ESYS 004	Industrial Calculations	3
ESYS 005	Zero Net Energy Building Science.....	4
ESYS 021	Residential Energy Modeling.....	3
ESYS 022	Residential Energy Modeling Design Project (ESYS-Res2).....	2

Required Courses for Specialty in Building Inspection Technology

BIT 010	California Building Codes	4
BIT 020	Building & Mechanical Codes.....	2
BIT 024	California Energy Codes	3
BIT 025	California Residential Codes.....	3
BIT 026	Building II & Fire Codes	3
BIT 030	Building & Plumbing Codes	2
BIT 040	Building & Electrical Codes.....	2
ARCH 002	Materials of Construction	4
ARCH 011	Architectural Blueprint Reading.....	3

Required Courses for Specialty in Applied Construction Technology

ACT 020	Introduction to Construction Technology	3
ACT 021	Site Preparation and Layout.....	1
ACT 022	Concrete and Formwork	1
ACT 023	Framing Carpentry	4
ACT 024	Roofing Applications	2
ACT 025	Thermal and Moisture Protection.....	1
ACT 026	Drywall Installation and Finish	1
ACT 027	Exterior Finish.....	1
ACT 028	Finish Carpentry	4
ACT 029	Masonry Fundamentals.....	2
ACT 030	Plumbing Fundamentals.....	3
ACT 031	Electrical Fundamentals	3

Required Courses for Specialty in Construction Management

ARCH 001	Introduction to Architectural Professions.....	3
ARCH 002	Materials of Construction	4
ARCH 003A	Architectural Practice I.....	3
ARCH 011	Architectural Blueprint Reading	3
BIT 010	California Building Codes	4
BIT 026	Building II & Fire Codes	3
CM 001	Introduction to Construction Management.....	2
CM 002	Intro to Urban Planning.....	3
DRA 002	AutoCAD	4

Required Courses for Specialty in Green HVAC Residential

ACR 060	Air Conditioning & Refrigeration I.....	3
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ACR 061	Air Conditioning & Refrigeration II.....	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
ACR 065	Air Conditioning & Refrigeration.....	3
ACR 075	HVACR Systems Design	3
ACR 077	Energy Conservation Methods for HVACR	3
ACR 078	Safe Refrigerant Handling & Management	3
ACR 080	Gas Heating	3
ACR 083	All Weather Heating & Cooling Systems	3

Required Courses for Specialty in Green HVAC Commercial

ACR 060	Air Conditioning & Refrigeration I	3
ACR 061	Air Conditioning & Refrigeration II	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
ACR 065	Air Conditioning & Refrigeration Electricity II	3
ACR 075	HVACR Systems Design	3
ACR 076	Facilities Maintenance - Chillers	3
ACR 077	Energy Conservation Methods for HVACR	3
ACR 078	Safe Refrigerant Handling & Management	3
ACR 083	All Weather Heating & Cooling Systems	3
ACR 084	Boiler & Hydronic Heating	3
ACR 090	Building Automation Fundamentals	3
BIT 020	California Mechanical Codes	2

Required Courses for Specialty in Facilities Operations Technician

ACR 060	Air Conditioning & Refrigeration I	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
ACR 065	Air Conditioning & Refrigeration Electricity II	3
ACR 076	Facilities Maintenance - Chillers	3
ACR 078	Safe Refrigerant Handling & Management	3
ACR 083	All Weather Heating & Cooling Systems	3
ACR 084	Boiler & Hydronic Heating	3
ACR 090	Building Automation Fundamentals	3
ARCH 011	Architectural Blueprint Reading	3
ACT 030	Plumbing Fundamentals	3

Required Courses for Specialty in Lighting and Controls Technology

ESYS 001	Energy Generation & Distribution Industry	3
ESYS 002	Electricity & Electrical Theory	3
ESYS 004	Industrial Calculations	3
ESYS 033	Residential House Electrical Wiring	3
ESYS 034	Lighting Efficiency Technology	3
ESYS 035	Advanced Lighting Controls	3
ESYS 095A	Energy Systems Technology Work Experience	1

Required Courses for Specialty in Residential Solar

ACT 024	Roofing Applications	2
ESYS 001	Energy Generation & Distribution Industry	3
ESYS 002	Electricity & Electrical Theory	3
ESYS 011	Residential Solar Surveying and Planning	3
ESYS 011L	Solar Site Planning Project Lab	1
ESYS 012	Residential Solar Installation	4
ESYS 033	Residential House Electrical Wiring	3
ESYS 095A	Energy Systems Technology Work Experience	1

Required Courses for Specialty in Power Generation and Distribution

ESYS 001	Energy Generation & Distribution Industry	3
ESYS 002	Electricity & Electrical Theory	3
ESYS 003	Energy Systems Technology	3
ESYS 004	Industrial Calculations	3
BUMA 032	Human Relations in the Workplace	3
NR 001	Conservation of Natural Resources	3
ACR 077	Energy Conservation Methods for HVACR	3

Required Courses for Specialty in Zero Net Energy Technology

ACR 075	HVACR Systems Design	3
ACR 077	Energy Conservation Methods for HVACR	3
ARCH 002	Materials of Construction	4
ESYS 001	Energy Generation & Distribution Industry	3
ESYS 002	Electricity & Electrical Theory	3

Required Core Subtotal.....	17
Specialty Subtotal	23
COD General Education Pattern	18
Kinesiology Activities	2
DEGREE TOTAL	60

b. LIGHTING AND CONTROLS TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Lighting and Controls Technology certificate provides training and preparation for industry recognize credential to electricians, contractors, acceptance test technicians, building operators, and managers. The training helps the electrical industry increase the use of energy-saving lighting controls in commercial buildings and ensuring they are properly installed and commissioned for maximum effectiveness.

Required Courses

ESYS 001	Energy Generation & Distribution Industry	3
ESYS 002	Electricity & Electrical Theory	3
ESYS 004	Industrial Calculations.....	3
ESYS 033	Residential House Electrical Wiring	3
ESYS 034	Lighting Efficiency Technology.....	3
ESYS 035	Advanced Lighting Controls	3
ESYS 095A	Energy Systems Technology Work Experience	1
CERTIFICATE TOTAL.....	19	

c. RESIDENTIAL SOLAR CERTIFICATE OF ACHIEVEMENT

The Residential Solar Certificate of Achievement is developed to prepare the students for careers in the field of renewable energy, focusing on solar energy technology. Graduates will be prepared for careers in design, installation, and repairing solar energy systems. Graduates will also be prepared to work with architects and engineers who consult, design, and guide solar installations, solar thermal, and battery storage projects.

Required Courses

ACT 024	Roofing Applications	2
ESYS 001	Energy Generation & Distribution Industry	3
ESYS 002	Electricity & Electrical Theory	3
ESYS 011	Residential Solar Surveying and Planning	3
ESYS 011L	Solar Site Planning Project Lab.....	1
ESYS 012	Residential Solar Installation.....	4
ESYS 033	Residential House Electrical Wiring	3
ESYS 095A	Energy Systems Technology Work Experience	1
CERTIFICATE TOTAL	20	

4. PROGRAM MODIFICATIONS

a. ~~ENERGY SYSTEMS TECHNOLOGY~~ POWER GENERATION AND DISTRIBUTION

CERTIFICATE OF ACHIEVEMENT

The Power Generation and Distribution Certificate ~~The Energy Systems Technology~~ Certificate of Achievement will provide students with the knowledge and ~~and~~ skills necessary for an entry-level position in the power generation industry ranging from small stand-alone systems designed for minimal single electrical load devices to centralized utility-scale utility scale operations designed to provide power to large regions supporting residential, commercial and/or industrial customers. Students will gain foundational skills in both the conceptual and practical side of power generation as well as an overview of the current electrical infrastructure including; Centralized Power Generation Stations, Distributed Power Generation, Transmission Systems, Distribution Systems, Switchyards, Switchyards and Sub-stations. Upon completion of the core courses, the students are given several elective course options to provide a measure of flexibility in the determination of the student’s occupational path. Elective courses cover fundamental skills in natural resources, business, alternative transportation, construction technology, HVAC, design and earth sciences.

Required Courses

ESYS 001	Energy Generation & Distribution Industry	3
ESYS 002	Electricity & Electrical Theory	3
ESYS 003	Energy Systems Technology	3
ESYS 004	Industrial Calculations.....	3
BUMA 032	Human Relations in the Workplace	3
NR 001	Conservation of Natural Resources.....	3
ACR 077	Energy Conservation Methods for HVACR.....	3
Electives- Select 3-4 units from the following		
NR 001L	Conservation of Natural Resources Lab	1
BUMA 010	Introduction to Business	3
AUTO 045A	Intro to Alternative Fuel Vehicles	2
ACT 020	Intro to Construction Technology	3
DRA 001	Technical Drafting I	3
G 010	The Earth Sciences	4
PH 001	Introductory Physics.....	4
ESYS 095A	Energy Systems Technology Work Experience	1-2
	<i>(Maximum of 2 units may be used for work experience)</i>	
Required Subtotal		21
Electives Subtotal.....		3
CERTIFICATE TOTAL		24-25

b. BASIC FILM PRODUCTION CERTIFICATE OF ACHIEVEMENT

Required Core (12 units)

FILM 001	RTV-006 Introduction to Film	3
FILM 002A	RTV-010A Film Production I: Basic Film Production	3
FILM 002B	RTV-011A Film Production II: Advanced Film Production.....	3
FILM 003	RTV-009 Screenwriting	3

Electives (6 units)

MC 001	Introduction to Mass Media	3
J 003A	News Reporting & Writing	3
ART 031	Digital Photography	3
or DDP 030	Digital Photography (3)	
BUMA 027	Marketing	3
CERTIFICATE TOTAL.....		18

II. ITEMS PULLED FROM CONSENT AGENDA (as requested by Course Originators)

- a. **ESYS 011** Residential Solar Surveying and Planning
Class size max: 40
- b. **ESYS 011L** Solar Site Planning Project Lab
Class size max: 20

Justification: *The Building and Energy Systems Professional Collaboration Team has and is continuing requesting the max cap of 20 students per instructor ratio in all lab courses. Under this AS degree, coursework is done while training with mechanical and electrical equipment. These labs put the students in an unsafe environment if the lab is not properly supervised. Instructors are required to have a clear line of sight to the students work at all times. An overwhelming source of data shows the complete safety of a student in an electrical training class needs to be set to 8 to1 ratio. That is, one instructor can only monitor a max of 8 students safely. Also, California T-5 mandates 200 square feet per student must be allocated in any lab during the training of mechanical. 200 square feet per students feet gives the students an adequate floor area to work around his or her station safety without the possibility of injuring others. See Board of Governors of the California Community Colleges Policy on Utilization and Space Standards page 5. In AS 107 We currently are not complying with this policy.*

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

- c. **BUMA 028** Entrepreneurship and Innovation ~~Small Business/Entrepreneurship~~
Change title from Small Business/Entrepreneurship. Update description, method of instruction/evaluation, assignments, change class size from 45 to 35.
Add to COD General Education list under Area C5 – Personal Growth & Development.

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

- d. **FILM 001** Introduction to Film (formerly RTV 006) **Did not make to the Tech Review queue**
e. **FILM 007** Contemporary World Film (formerly RTV 008) **Back to Originator for changes, per originator's request**

III. COURSES AND PROGRAMS – 1ST READING

A. New Courses:

1. AIS 007A Introductory Excel
Advisory: AIS 005
Modality: 100% online & Face-to-Face
Class Size Maximum: 28
2. AIS 007A Introductory Excel
Prerequisite: AIS 007A, CIS 010
Modality: 100% online & Face-to-Face
Class Size Maximum: 28

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

3. AJ 001A Introduction to Criminal Justice 1A
Advisory: ENG 061
Modality: Face-to-face, 100% online
Class size: 30
4. AJ 001B Introduction to Criminal Justice 1B
Prerequisite: AJ 001A; Advisory: ENG 061
Modality: Face-to-face, 100% online
Class size: 30

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

5. BUMA 026 Social Media Marketing
Prerequisite: BUMA 027; Advisory: BUMA 031 & BUMA 094
Class size: 40

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

6. CIS 076 Introduction to Systems Analysis and Design (C-ID ITIS 140 to be submitted)

Prerequisite: CIS 010

Modality: Face-to-face

Class size: 32

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

7. ENGT 009 Introduction to Robotics

Advisory/Prerequisite/Prerequisite: None

Modality: Face-to-face

Class size: 30

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

B. Course Modifications:

1. AIS ~~CIS~~ 002 Microsoft Outlook
Change course code from ~~CIS~~ to AIS; add Office Technologies to the Discipline List; update textbook and SLOs; and complete DE checklist.
2. AIS ~~CIS~~ 003 Introduction to Microsoft Word
Change course code from ~~CIS~~ to AIS; update textbook and SLOs; and complete DE checklist.
3. AIS ~~CIS~~ 004 PowerPoint
Change course code from ~~CIS~~ to AIS; add Office Technologies to the Discipline List; update objectives and SLO, and complete DE checklist.
4. AIS ~~CIS~~ 005 Computer Survival Skills
Change course code from ~~CIS~~ to AIS; modify catalog description, course content, and SLOs; update textbook; and complete DE checklist.
5. AIS ~~CIS~~ 006 Business Research
Change course code from ~~CIS~~ to AIS, update SLO, and complete DE checklist.
6. AIS ~~CIS~~ 011 Current Topics in Technology
Change course code from ~~CIS~~ to AIS, update objectives & SLOs, and complete DE checklist.
7. AIS ~~CIS~~ 012 Professional Office Procedures
Change course code from ~~CIS~~ to AIS; update textbook, objective & SLOs; and complete DE checklist.
8. AIS ~~CIS~~ 017 Business Data Management with Microsoft Access
Change course code from ~~CIS~~ to AIS; modify title by removing "~~with Microsoft Access~~", modify catalog description, remove hybrid offering, complete DE checklist.

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

9. BUMA 032 Human Relations in the Workplace

Remove Distance Ed modality, update objectives & SLOs, and add to COD GE Area C2 (Social & Behavioral Science) and Area C5 (Personal Growth and Development)

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

10. CIS 053 Computer Network Fundamentals (C-ID ITIS 150 to be submitted)

Change Units and Contact Hours distribution **from: 3 lecture units/no lab (54 lecture hours) to 2 lecture + 1 lab units (36 lecture + 54 lab hours, total 90 lab hours).** Add Advisory: CIS 040 or CIS 040B. Add lab content. Change TOP Code **from: 070100 to: 070810.**

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

11. MC 005 Introduction to Public Relations (C-ID JOUR 150)
Update textbook and modify SLOs.

Team Discussion

- Requisites and Entrance Skills
- Course Content and Units
- Methods of Instruction and Evaluation
- Articulation, GE's and Coding

C. New Programs:

1. BASIC RADIO PRODUCTION CERTIFICATE OF ACHIEVEMENT

Digital technology has transformed radio production and broadcasting, making it possible to produce programming without huge budgets, expensive audio equipment or large studios. Today radio programming reaches massive audiences through streaming platforms that include Apple, Pandora, Spotify. Add to this the continued strength of traditional and satellite radio broadcasting and you have an industry that is strong and growing.

In this six-course certificate program, students receive direct, hands-on experience creating radio programming that is intelligent, creative, compelling, entertaining and informative. The certificate covers the basic aspects of radio production, including scripting, recording, editing and broadcasting. Students will learn:

- Audio programming concepts, including story development, radio vocabulary, audio production tools, studio protocol and production workflow
- Writing and producing techniques including script formatting, studio management, on-air reporting and interviewing, communicating with collaborating
- Audio recording fundamentals, basic sound editing and mixing
- Broadcast techniques

This Certificate provides a platform from which to launch further study of radio production as well as offer students basic entry-level industry skills, processes and practices. It gives students crucial communication and storytelling tools they may apply in almost any area of study. Students emerge with radio programming for their personal or professional portfolio.

Required Core (12 units)

RTV 002	Broadcast Announcing	2
RTV 005	Broadcast Writing	3
RTV 007	Intro. to Radio Production	3
RTV 007A	Intermediate Radio Production	3

Electives: Select 6 units from the following

RTV 007B	Advanced Radio Production	3
FILM 002A	Film Production I: Basic Film Production	3
MC 001	Introduction to Mass Media	3
MC 005	Introduction to Public Relations	3
MUS 078A	Digital Audio I	3
J 03A	News Reporting & Writing.....	3
BUMA 027	Principles of Marketing.....	3
BUMA 028	Small Business/Entrepreneurship.....	3
RTV 095A	RTV Work Experience (max 2 units may be used for work experience)	1-2

CERTIFICATE TOTAL 17

D. Program Modifications:

1. Air Conditioning & Refrigeration AS Degree

Required Courses	Units	
ACR 060	Air Conditioning & Refrigeration I	3
ACR 061	Air Conditioning & Refrigeration II	3
ACR 064	Air Conditioning & Refrigeration Electricity I.....	3
ACR 065	Air Conditioning & Refrigeration Electricity II.....	3
ACR 075	HVACR Systems Design.....	3
ACR 076	Facilities Maintenance - Chillers.....	3
ACR 078	Safe Refrigerant Handling & Management.....	3

	ACR 080	Gas Heating.....	3
	ACR 083	All Weather Heating & Cooling Systems.....	3
	Electives	Select 13 units from the following:	
	ACR 077	Energy Conservation Methods for HVACR.....	3
ADD	ACR 084	Boiler & Hydronic Heating	3
ADD	ACR 090	Building Automation Fundamentals	3
ADD	ACR 091	Advanced Building Control Networks.....	3
ADD	ACR 092	Advanced Building Automation Networks and Programming.....	3
	ACR 095A	Air Conditioning Refrigeration Work Experience	1-4
		(Maximum of 4 units may be used for work experience)	
ADD	ACT 020	Introduction to Construction Technology	3
ADD	ACT 021	Site Preparation and Layout	1
ADD	ACT 022	Concrete & Formwork	1
ADD	ACT 023	Framing Carpentry	4
ADD	ACT 024	Roofing Applications.....	2
ADD	ACT 025	Thermal & Moisture Protection.....	1
ADD	ACT 026	Drywall Installation & Finish	1
ADD	ACT 027	Exterior Finish	1
ADD	ACT 028	Finish Carpentry.....	4
ADD	ACT 029	Masonry Fundamentals	2
ADD	ACT 030	Plumbing Fundamentals	3
ADD	ACT 031	Electrical Fundamentals.....	3
	ARCH 011	Architectural Blueprint Reading	3
	AUTO 018	Automotive Heating, Ventilation & Air Conditioning	4
	BIT 010	California Building Codes	4
	BIT 020	California Mechanical Codes	2
ADD	BIT 024	California Energy Codes.....	3
ADD	BIT 030	California Plumbing Codes.....	2
ADD	BIT 040	California Electrical Codes	2
	BUAC 020A	Financial Accounting.....	4
	BUAC 066	Fundamentals of Bookkeeping	3
	BUMA 020A	Business Law I.....	3
	BUMA 028	Entrepreneurship and Innovation	3
	BUMA 031	Business Calculations.....	3
	BUMA 094	Business Communications	3
	CIS 010	Computer Literacy	4
	ESYS 001	Energy Generation & Distribution Industry.....	3
	ESYS 002	Electricity & Electrical Theory.....	3
	ESYS 003	Energy Systems Technology	3
	ESYS 004	Industrial Calculations	3
ADD	ESYS 005	Zero Net Energy Building Science	4
ADD	ESYS 006	Fundamentals of Building Commissioning.....	3
ADD	ESYS 011	Residential Solar Surveying and Planning.....	3
ADD	ESYS 011L	Solar Site Planning Project Lab	1
ADD	ESYS 012	Residential Solar Installation	4
ADD	ESYS 021	Residential Energy Modeling	3
ADD	ESYS 022	Residential Energy Modeling Design Project.....	2
ADD	ESYS 033	Residential House Electrical Wiring.....	3
ADD	ESYS 034	Lighting Efficiency Technology.....	3
ADD	ESYS 035	Advanced Lighting Controls	3
ADD	ESYS 095A	Energy Systems Technology Work Experience	1-8
	WELD 011*	Shielded Metal Arc Welding	3
	WELD 012*	Basic Gas Metal Arc Welding (MIG).....	3
	Required Subtotal		27
	Electives Subtotal		13
	COD General Education Pattern.....		18

Kinesiology Activities.....	2
DEGREE TOTAL	60

*pending course revision

2. FILM PRODUCTION AS DEGREE

Required Courses (21 units)

FILM 001 RTV-006	Introduction to Film	3
FILM 002A RTV-010A	Film Production I: Basic Film Production.....	3
FILM 002B RTV-011A	Film Production II: Advanced Film Production	3
FILM 002C RTV-012	Film Production III: Capstone	3
FILM 003 RTV-009	Screenwriting	3
FILM 004 RTV-013	Cinematography	3
DDP 020	New Media I	3

Select two courses from the following (6 units)

FILM 005	On-Camera Acting & Voice Over	3
FILM 006	Documentary Film making	3
TA 010	Introduction to Design & Production	3

Electives: Select ~~16~~ 13 units from the following (13 units)

FILM 005	On-Camera Acting & Voice Over	3
FILM 006	Documentary Filmmaking	3
FILM 007	Contemporary World Film.....	3
TA 010	Introduction to Design & Production	3
J 003A	News Reporting & Writing	3
MC 001	Introduction to Mass Media.....	3
ART 031	Digital Photography.....	3
or DDP 030	Digital Photography	
BUMA 027	Marketing	3
BUMA 028	Entrepreneurship and Innovation	3
DDP 002	Computer Graphics 2.....	3
DDP 021	New Media II	3
MUS 078A	Digital Audio I	3
FILM RTV 095A	Film Radio & TV Work Experience (max of 4 units may be used for work experience)	1-4
COD General Education	18
Physical Education Activities		2
DEGREE TOTAL		60

3. ADVANCED FILM PRODUCTION CERTIFICATE OF ACHIEVEMENT

Required Courses (9 units)

FILM 002C RTV-012	Film Production III: Capstone	3
FILM 004 RTV-013	Cinematography	3
DDP 020	New Media I	3

Select two courses from the following (6 units)

FILM 005 RTV-014	On-Camera Acting & Voice Over	3
FILM 006 RTV-015	Documentary Film making	3
TA 010	Introduction to Design & Production	3

Select ~~9-6~~ units from the following (6 units)

FILM 005 RTV-014	On-Camera Acting & Voice Over	3
FILM 006 RTV-015	Documentary Film making	3
FILM 007 RTV-008	Contemporary World Film.....	3
TA 010	Introduction to Design & Production	3
BUMA 028	Entrepreneurship and Innovation	3
DDP 002	Computer Graphics 2.....	3
DDP 021	New Media II	3

MUS 078A	Digital Audio I	3
RTV 095A	Radio & TV Work Experience.....	1-2
FILM 095A	FILM Work Experience	1-2
CERTIFICATE TOTAL	22
		21

6. Information/Discussion

- 6.1 Tracking changes in Courseleaf
- 6.2 Curriculum training

7. Good of the Order

8. Adjournment

NEXT MEETING

October 18, 2018