Submit originals (including syllabus) and one copy and electronic copy to the Faculty Senate Office See <a href="http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/">http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/</a> for a complete description of the rules governing curriculum & course changes.

CHANGE COURSE (MAJOR) and DROP COURSE PROPOSAL Attach a syllabus, except if dropping a course.										
SUBMITTED BY:										
	Department					0	College/School	CRCD / Community & Technical College		
	Prepared by	Galen Johnson			1	Phone	455-2	455-2846		
	Email Contact	gjohns55@alaska.edu				Faculty Contact	Galer	Galen Johnson		
1.	1. COURSE IDENTIFICATION: As the course now exists.									
	Dept CM Course			urse #	F142	2	No. of Credits 4			
	COURSE TITLE Mechanical and Electrical Technology									
2.	2. ACTION DESIRED:   Change Course  X  Check the changes to be made to the existing course.  Change Course  X  Drop what is changing.  Course									
	NUMBER			TITLE			DESCRIPT			
	*Prerequisit		oe req	uired b	efore		REQUENCY OF O		roll in	the course.
	CREDITS (including credit distribution) X				X	COURSE CLASSIFICATION				
	ADD A STACKED LEVEL (400/600) Include syllabi.					Course #				
		ch other?	How w	ill eac	h be					
	Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabiundergraduate and graduate versions—will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. is there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online—see URL at top of this page.									
	ADD NEW CF			Dept. & No.		invol	res approval of wed. Add lines tures.			
	STOP EXIS	ALC: CONTRACTOR		Dept. & No.		Requ	equires notification of other department(s) and nutual agreement. Attach copy of email or memo.			
	OTHER (speci	fy)								
3.	NOTE: Course compressed in council and t	hours may to fewer t he appropr less than MAT: hat apply) T (speci:	han siz	x weeks a aculty S	must be	e appro	er than three do oved by the collum committee.  d by the Core Ro	lege or s Furtherm	chool's conce, any mittee.	curriculum
	Mode of del (specify le	ivery cture, f	ield	lecture						

Cl	course classifications: (undergradua napter 12 of the curriculum manual. neet.)	If justif	s only. Us ication i	se app s need	ded,	ed crite attach	eria for separa	und i te
H = Humanities S = Social Sciences								
	Will this course be used to fulfil for the baccalaureate core?	ll a requi	rement	YES			мо	х
	IF YES*, check which core requirement	s it coul	d be used	to f	ulfi	11:		
		Writing In	LAS Resolution Rev. 34 Sec. 453.0			X = Bacca		
<b>n</b>	Is course content related to norther			mmo1		budi and	Cor	
	"snowflake" symbol will be added to YES NO X							
5.	COURSE REPEATABILITY:					Mark		
To leave	Is this course repeatable for credit?	YES	МО		x			
1	Justification: Indicate why the cour repeated (for example, the course fol different theme each time).							
ŀ	low many times may the course be repe	ated for	credit?				T	IMES
,	If the course can be repeated with va	riable cr	edit, wha	t is	the i	maximum		CRED
r	number of credit hours that may be ea	rned for	this cour	se?				CRED
1 1 2	Multiple countries and specific polor limiting self-determination. Pre of instructor. (Cross-listed with Alexandrea Mechanical and Electrical Tec. 443 Credits Offered As Demand Warrants introduces the basic mechanical and electrical sy and convenience of the occupants. Emphasizes deconstruction drawings. Special fees apply. (3+2) (3	requisite NS F450.) chnology vstems requi	(3+0)	divisi	for th	standing	health, co	omfort
	COMPLETE CATALOG DESCRIPTION AS IT S  CM F142 Mechanical and Electrical Tec		EAR AFTER	ALL (	CHAN	GES ARE	MADE:	
1	3 Credits Offered As Demand Warrants (introduces the basic mechanical and electrical sy and convenience of the occupants. Emphasizes deponstruction drawings. Special fees apply. (3+0)	stems requi	red in all bu a, code requ	ildings iremen	for th	ne safety, d interpre	health, co	omfort
3.	GRADING SYSTEM: Specify only one.  LETTER: X PASS/FAIL:							
9.	ESTIMATED IMPACT WHAT IMPACT, IF ANY, WILL THIS HAVE	ON BUDGET	F, FACILIT	TIES/S	PACE	, FACUL	TY, ETC	
The proposed credit reduction and distribution change will match the efficiency of the presently implemented scheduling of 3 hour evening lecture class sessions which are utilized by many workforce development related degree programs and will reduce its cost.								

	LIBRARY COLLECTIONS					
	Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and					
	services available for the proposed course? If so, give date of contact and					
	resolution. If not, explain why not.  No X Yes Library resource usage will be unchanged.					
	No X Yes Library resource usage will be unchanged.					
11.	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)  The Drafting Technology (DRT) program favors this change as it simplifies CM and DRT student's					
	schedules and will continue to encourage CM students to take additional elective DRT courses.					
12.						
	Please specify <b>positive and negative</b> impacts on other courses, programs and departments resulting from the proposed action.					
	CM and DRT programs and students will benefit from better coordination of evening class schedules					
	and decreased costs.					
	. JUSTIFICATION FOR ACTION REQUESTED					
	The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF					
6	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 ask for a change in of credits, explain why; are you increasing the amount of material covered in the					
(	class? If you drop a prerequisite, is it because the material is covered elsewhere?					
r	If course is changing to stacked (400/600), explain higher level of effort and performance required on part of students earning graduate credit. 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 course is not compromised as a result.					
TI	he proposed credit hour reduction will allow students to complete the lecture-delivered portion of each CM					
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Signature of Provost (if applicable)

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION	TO THE GOVERNANCE OFFICE.
	Date
Signature, Chair Faculty Senate Review Committee:Curriculum RevCore Review	
ADDITIONAL SIGNATURES: (As needed for cross-listing blocks as necessary.)	and/or stacking; add more
	Date
Signature, Chair, Program/Department of:	
	Date
Signature, Chair, College/School Curriculum Council for:	
	Date
Signature, Dean, College/School of:	

Note: If removing a cross-listing, attach copy of email or memo to indicate mutual
agreement of this action by the affected department(s). If degree programs are
affected, a Format 5 program change form must also be submitted.

ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at: http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/ The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied. SYLLABUS CHECKLIST FOR ALL UAF COURSES During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline): 1. Course information: □Title, □ number, □credits, □prerequisites, □ location, □ meeting time (make sure that contact hours are in line with credits). 2. Instructor (and if applicable, Teaching Assistant) information: □ Name, □ office location, □ office hours, □ telephone, □ email address. 3. Course readings/materials: ☐ Course textbook title, ☐ author, ☐ edition/publisher.  $\square$  Supplementary readings (indicate whether  $\square$  required or  $\square$  recommended) and any supplies required. 4. Course description: Content of the course and how it fits into the broader curriculum; ☐ Expected proficiencies required to undertake the course, if applicable. ☐ Inclusion of catalog description is strongly recommended, and Description in syllabus must be consistent with catalog course description. 5. Course Goals (general), and (see #6) 6. ☐ Student Learning Outcomes (more specific) 7. Instructional methods: ☐ Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.). 8. Course calendar:  $\square$  A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester. 9. Course policies: ☐ Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity. 10. Evaluation: lacktriangle Specify how students will be evaluated, lacktriangle what factors will be included, lacktriangle their relative value, and  $\square$  how they will be tabulated into grades (on a curve, absolute scores, etc.) 

Publicize UAF regulations with regard to the grades of "C" and below as applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of grading policy for "C": http://www.uaf.edu/files/uafgov/Info-to-Publicize-C Grading-Policy-UPDATED-May-2013.pdf 11. Support Services: ☐ Describe the student support services such as tutoring (local and/or regional) appropriate for the course. 12. Disabilities Services: Note that the phone# and location have been updated. http://www.uaf.edu/disability/ The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus

☐ State that you will work with the Office of Disabilities Services (208

WHITAKER BLDG, 474-5655) to provide reasonable accommodation to students with

and course materials.

disabilities.

5/21/2013

## Course Syllabus

Course Title:

Mechanical and Electrical Technology

Course Number:

CM F142 TE1 CRN XXXXX

Credits:

3 Credit Hours

Location:

Instructor:

Community and Technical College, 604 Barnette St., Rm 311 Monday 6:00 PM to 9:00 PM (Jan. XX - May XX, 2017)

Meeting Time:

Mark Frame, P.E.

Office hours by appointment only

Phone: XXX-XXXX

Email:

Department Contact:

Galen Johnson, Coordinator, Construction Management CTC

Rm 320 Phone: 455-2846 <a href="mailto:qjohns55@alaska.edu">qjohns55@alaska.edu</a>
Appointments available at: <a href="mailto:qjohns55.youcanbook.me">qjohns55.youcanbook.me</a>

Martha Westphal, Admin. Assistant, 455-2886 mmwestphal@alaska.edu

Course Text:

Mechanical and Electrical Systems in Buildings 5th edition ISBN 0-13-801562-

7 Janis & Tao, Pearson Prentice Hall Publishers

**Course Description:** CM F142 introduces the basic mechanical and electrical systems required in all buildings for the safety, health, comfort, and convenience of the occupants. Emphasizes design criteria, code requirements and interpretation of construction drawings.

Class sessions will consist of lectures, discussions, homework, projects and tests with emphasis on realistic assignments that will introduce students to building systems concepts, design parameters and terminology.

#### CM F142 topics include:

- Introduction to applicable codes & standards and construction specifications & drawings
- HVAC Psychrometrics, Ventilation/Cooling Loads, Delivery Systems and equipment
- Plumbing equipment and systems
- Fire Protection equipment and systems
- Introduction to electricity
- Electrical Power equipment and systems
- Communications, Life Safety and Security
- Electrical Design and Wiring
- Lighting equipment and systems

**Course Goals:** This course will introduce a basic knowledge of building mechanical and electrical systems to entry-level construction managers.

Student Learning Outcomes: Upon successful completion of the course, the student will be able to -

- Locate appropriate discipline in design documents and Identify applicable code or standard.
- Summarize the effects of heat transfer, temperature and humidity, building solar design/orientation and fresh air ventilation on human comfort.
- Describe the effect that climate, construction assemblies and construction systems have on the building's insulating capability and heating fuel usage.
- Identify the components and equipment used in HVAC systems.
- Identify sources of potable water, explain the use of regulatory codes for system installations, differentiate between various piping materials and compute the size of piping depending on

- system demand and design.
- Identify the elements and the purpose of a separate drainage piping system within a building and define the purpose of venting to the atmosphere and fresh air ventilation on human comfort.
- Understand principles of Watts and Ohm's laws define the behavior of electrical circuits.
- Explain how electrical power is generated and conducted.
- Describe the different types of electrical services, compute building service loads, describe the use of electrical panels, disconnect switches and circuit breakers.
- Identify the requirements for low power systems such as building controls, communication, fire alarm and TV.
- Examine different types of branch circuitry for residential and commercial buildings, identify
  the materials and methods used, estimate branch circuit loads for lighting, appliances and
  motors.
- Define various types of interior lighting and lighting levels by activity within building spaces.

Outcome will be assessed by one or more of the following:

- Class Participation
- Projects
- Homework
- Exams

**Instructional Methods:** Class sessions will consist of lecture/discussions, homework and field trips, when possible.

Course Calendar: See Schedule of Topics attached.

#### **Course Policies and Procedures:**

University Policies - Please review all university policies as written in the current UAF catalog.

- Attendance Students are required to attend regularly and participate actively. Students are
  responsible for class work even if there is a legitimate excuse for their absence. Team Projects
  and Lab activities during class will not be repeated for the benefit of absentees.
- Cheating Any means by which a student uses unauthorized assistance to prepare materials submitted as their own. Cheating is grounds for dismissal from the university. This includes the unauthorized use or exchange of computer files.
- Smoking No tobacco usage on campus.
- ID Cards Students should carry their UAF Student ID cards with them whenever they are on campus.

## **Department Policies**

- Emergency Exits In case of emergency, exit the room into the main corridor. Exits may be reached by going either direction down the corridor. Fire alarm pull stations and fire extinguishers are located in the corridor.
- Food/Drink Covered drinks are allowed, food is not.
- Grades Final Grades will be posted to UAOnline.
- Name Put your name on all papers/projects or you may not receive credit for it.
- Deadlines Weekly assignments are due at the beginning of the designated following class period. Late work may not earn full credit.

#### **Evaluation:**

- Homework: Questions will be assigned from the text book and other sources which are used in presenting scheduled topics.
- Projects: There will be two small projects assigned during the semester based on major learning

- fields. Students will be given two weeks to complete the projects.
- Exams: There will be three exams each worth 150 points. They will be "open book". There will be true/false questions, multiple-choice questions and story problems. Questions will be derived from the assigned text reading, lectures, homework and quizzes.
- Makeup Tests: Make-up tests may be given upon approval by the instructor. The time for make-up tests will be arranged directly with the instructor.
- Participation: 10 points will be awarded for on-time attendance and participation in discussion in each class session. Pre-notification of unavoidable absences will garner partial credit versus "no-shows".

**Grading Policy:** All grades are determined by competency-based criteria evaluation. Students are evaluated on individual performances and are not graded in comparison with other students or normal curve distribution. Letter grades for the course will reflect the *Grading System and Grade Point Average Computation* policy stated in the current UAF catalog. Faculty initiated withdrawals for non-attendance, plaquarism, and disruptive behavior is per current UAF Catalog guidelines.

Grade Tabulation Homework	200 pts	Grading Scale: (note: no +/- grades)
Projects Exam 1 Exam 2 Exam 3 Participation Total Points	200 pts 150 pts 150 pts 150 pts <u>150 pts</u> 1,000 pts	A 90% B 80% C 70% D 60%

## Support Services:

The CTC Student Assistance/Advising Center provides services that contribute to a successful learning experience and transition to a career. Services are available by appointment and on a walk- in basis. Staff at the center recognizes the unique concerns of adult and returning students. Services include preadmission advising, academic assessment and placement advising, financial aid information and application, and assistance with choosing a major. Ongoing academic advising, degree planning and course selection are available. For more information, contact Student Assistance, UAF Community and Technical College, 604 Barnette Street, Fairbanks, Alaska 99701, telephone (907) 455-2800, or visit online at <a href="http://www.ctc.uaf.edu/student/index.html">http://www.ctc.uaf.edu/student/index.html</a>.

### **Disability Services:**

Disability Services provide a variety of services to assure equal access for all students. Interpreting services, educational assistants, note taking, and exam accommodations for students are the most frequently provided accommodations. The staff of Disability Services works with faculty in arranging appropriate services in the classroom. Questions should be directed to the Director of Disability Services at (907)-474-5655. Visit their website at: <a href="http://www.uaf.edu/disability/index.html">http://www.uaf.edu/disability/index.html</a>

#### Title IX:

University of Alaska Board of Regents have clearly stated in BOR Policy that discrimination, harassment and violence will not be tolerated on any campus of the University of Alaska. If you believe you are experiencing discrimination or any form of harassment including sexual harassment, misconduct or assault, you are encouraged to report that behavior. If you disclose sexual harassment or sexual violence to a faculty member or any university employee, they must notify the UAF Title IX Coordinator about the basic facts of the incident. Your choices for disclosure include:

- 1) You may confidentially disclose and access confidential counseling by contacting the UAF Health & Counseling Center at 474-7043;
- 2) You may access support and file a Title IX report by contacting the UAF Title IX Coordinator at 474-6600:
- 3) You may file a criminal complaint by contacting the University Police Department at 474-7721.

# **SCHEDULE OF TOPICS**

CM F142 Mechanical & Electrical Technology

Instructor: Mark Frame

Jan XX – May XX, 2017 Mondays 6:00pm – 9:00pm

Class 01 Jan XX

Introduction: Class Schedule & Syllabus
Browse text: Mechanical and Electrical
Systems in Buildings (5<sup>th</sup> edition) by Janis &

Tao

Class 02

Topic: Intro to Mech & Elec Systems and

HVAC Fundamentals Reading: Chapters 1 & 2

Class 03

Topic: HVAC Delivery and Cooling Systems

Reading: Chapter 3 & 4

Class 04

Topic: Heating and Air Handling Systems

Reading: Chapters 5 & 6

Class 05

Topic: Piping & Plumbing Eq. & Systems

Reading: Chapters 7 & 8 Exam #1 Study Review

Class 06

Exam #1

Class 07

Review Exam #1 results Topic: Fire Protection

Reading: Chapter 9

Class 08

Topic: Intro to Electricity Reading: Chapter 10

reading. Chapter is

Class 09

**Topic: Power Equipment & Systems** 

Reading: Chapter 11

Class 10

Topic: Comm., Safety, Security Systems and

**Electrical Design** 

Reading: Chapters 12 & 13 Exam #2 Study Review

Class 11

Exam #2

Class 12

Topic: Light, Lighting Equip & Systems

Reading: Chapters 14 & 15

Class 13

Topic: Illumination Calcs & Lighting Design

Reading: Chapters 16 & 17

Class 14

**Topics: Noise & Vibration and Systems** 

Coordination

Reading: Chapter 18 & 19

Exam #3 Study Review

Class 15

Exam #3

NOTE: Schedule subject to change by

Instructor upon prior notice.