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				(	College/	School		D / Commical Col	nunity &		
	Prepared by	Galen Johnson			I	Phone		455-2	846			
	Email Contact	gjoinis55(waiaska.edu			1150	Faculty Contact		Galen	Johnson	n		
1.	COURSE IDENTIFICATION: As the course now exists.											
	Dept CN	CM Course # F231					No. of Credits 4					
	COURSE TITLE	TITLE Structural Technology										
2.	ACTION DESIRED:   Check the changes to be made to the existing course.  Change Course  X  If Change, indicate below Drop what is changing.  Course											
	NUMBER	MBER TITLE					SCRIPTI					
	*Prerequisi		X he	required b	nefore		REQUENC:		CAPACITIC CONTRACTOR	roll in	the course.	
	CREDITS (in				Serore	a stu		COURSE	u co en	TOTT III	the course.	
	distribution	distribution) X						SIFICAT	TION			
	ADD A STACK (400/600) Include sylla		L	Dept			Cour	se #				
	How will the two course levels differ from each other? How will each 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 CI			Dept. & No.	- 1	invol					and deans or additional	
	STOP EXIS	A STATE OF THE STA		Dept. & No.							tment(s) and ail or memo.	
	OTHER (spec	ify)										
3.	NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council and the appropriate Faculty Senate curriculum committee. Furthermore, any core course compressed to less than six weeks must be approved by the Core Review Committee.  COURSE FORMAT:  1 2 3 4 5 X 6 weeks to											
	(check all to OTHER FORM	that app	SEE SEE					7			full semester	
	all that a Mode of de (specify l trips, lab	pply) livery ecture,	fiel	lecture			II	1 5				

(	COURSE CLASSIFICATIONS: (undergraduate courses only. Use approved criteria found in Chapter 12 of the curriculum manual. If justification is needed, attach separate sheet.)						
H = Humanities S = Social Sciences							
	Will this course be used to fulfil	ll a requ	irement	YES		N	ОХ
	for the baccalaureate core?						
	IF YES*, check which core requirement  O = Oral Intensive,  W =		ntensive,	to f		l: = Baccalaure	eate
			submitted				Core
4.A	Is course content related to northe	A SHARING THE PROPERTY OF THE PARTY OF THE P		THE RESERVE OF SHIPE SHIPE			
	"snowflake" symbol will be added :  YES NO X	in the pr	inted Cat	alog,	and f	lagged in l	Banner.
5.	COURSE REPEATABILITY:						
	Is this course repeatable for credit?	YES	NO		х		
Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).							
	How many times may the course be repe	eated for	credit?	Market I			TIMES
	If the course can be repeated with vanumber of credit hours that may be ea				the ma	aximum	CREDITS
	PS F450 Comparative Aboriginal Indi 3 Credits Offered As Demand Warrants Case-study Comparative approach in- rights and policies in different na Multiple countries and specific pol or limiting self-determination. Pre of instructor. (Cross-listed with A  CM F231 Structural Technology  (4) 3 Credits Offered As Demand Warrants Examines structural theory and the physical prir materials in a manner to maintain structural stab earthquakes. Covers connection detailing and co Special fees apply. Prerequisites: CM F102; DRT F	assessing tion-staticy devel requisite NS F450.)	Aborigin e systems opments e es: Upper (3+0) underlie stru t such natura	al to . Sove xamine divisi	analy en Abe ed for ion st	vzing Indig priginal si factors p tanding or or. Includes the	tuations romoting permission e use of ow and
7.	COMPLETE CATALOG DESCRIPTION AS IT S	HOULD API	PEAR AFTER	ALL C	CHANGE	S ARE MADE	:
	CM F231 Structural Technology 3 Credits Offered As Demand Warrants Examines structural theory and the physical prir materials in a manner to maintain structural stab earthquakes. Covers connection detailing and co Special fees apply. Prerequisites: CM F102. (3+0)	ility agains	t such natura	al forces	s as gra	wity, wind, sn	ow and
8. 9.	GRADING SYSTEM: Specify only one.  LETTER: X PASS/FAIL:  ESTIMATED IMPACT	ON THE					
	WHAT IMPACT, IF ANY, WILL THIS HAVE						
	The proposed credit reduction and distribution implemented scheduling of 3 hour evening led development related degree programs and wi	ture class	essions whi	ie effici ch are i	ency o itilized	t the presentl by many wo	y rkforce

10. LIBRARY COLLECTIONS							
Have you contacted the library collection development	officer (klienconfelecka odu						
474-6695) with regard to the adequacy of library/media collections, equipment, and							
services available for the proposed course? If so, give	ve date of contact and						
resolution. If not, explain why not.							
No X Yes Library resource usage will b	e unchanged.						
11. IMPACTS ON PROGRAMS/DEPTS:							
What programs/departments will be affected by the Include information on the Programs/Departments contacted (e	is proposed action?						
The Drafting Technology (DRT) program favors this change as it si							
schedules and will continue to encourage CM students to take additional elective DRT courses.							
state in a win continue to encourage our state in take industry	onal elective Diel courses.						
12. POSITIVE AND NEGATIVE IMPACTS							
Please specify positive and negative impacts on other	courses, programs and						
departments resulting from the proposed action.	Total Control of the						
CM and DRT programs and students will benefit from better coord	ination of evening class schedules						
and decreased costs.							
13. JUSTIFICATION FOR ACTION REQUESTED							
The purpose of the department and campus-wide curriculum course change and new course applications to make sure t							
education is not lowered as a result of the proposed cha							
your response. This section needs to be self-explanator							
# of credits, explain why; are you increasing the amount	of material covered in the						
class? If you drop a prerequisite, is it because the ma							
If course is changing to stacked (400/600), explain high							
performance required on part of students earning graduate credit. Use as much space							
as needed to fully justify the proposed change and expla ensure that the quality of the course is not compromised	in what has been done to						
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Signature of Provost (if applicable)

		Date		
Signature, Chair Faculty Senate Review Committee	e:Curriculum Re	eview	GAAC	
	Core Review	SA	DAC	
	ed for cross-listing	g and/or	stacking;	add mo
	ed for cross-listing		stacking;	add mo
ocks as necessary.)	ed for cross-listing	g and/or	stacking;	add 1
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Date

Note: If <u>removing</u> 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.

Signature, Dean, College/School

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. □ Supplementary readings (indicate whether □ required or □ 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: ☐ 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: □ Specify how students will be evaluated, □ what factors will be included, □ 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 and course materials. □ State that you will work with the Office of Disabilities Services (208

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

disabilities.

Course Title:

Structural Technology

Course Number:

CM F231 CRN XXXXX Sec TE1

Credits:

Location:

**CTC 604B Room 322** 

Meeting Time:

Instructor:

Tues (09/XX - 12/XX) 6:00 - 9:00pm

Galen Johnson, Rm 320C 455-2846 gjohns55@alaska.edu

Department Contact: Galen Johnson, Coordinator Construction Management & Drafting

Tech

604 Barnette Street, Suite 320

Office hours 10:00am – 3:00pm (or other by appointment) Office 455-2846 Cell 590-8531 Email gjohns55@alaska.edu

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

Course Text:

Statics and Strength of Materials for Architecture and Building Construction (4th

Ed.) ISBN 013507925-X Onouye & Kane Pearson/ Prentice Hall Pub.

Course Description: CM F231 examines structural theory and the physical principles that underlie structural behavior. Includes the use of materials in a manner to maintain structural stability against such natural forces as gravity, wind, snow and earthquakes. Covers connection detailing and code requirements for wood, steel and reinforced concrete.

Includes the strength of common construction materials, structural shapes, connection details and code requirements for wood, steel and reinforced concrete.

#### CM F231 topics include:

- Forces: Static & Dynamic Loads
- Structural Equilibrium & Stability
- Load Tracing
- Foundations including Permafrost Conditions
- **Beams & Columns**
- Strength of Materials including Concrete, Wood & Steel Construction
- Connections
- **Seismic Considerations**
- Risk & Responsibility Safety. Ethics and Liability
- Temporary construction loads on structures

Course Goals/Outcomes: upon successful completion of this course students will be able to:

- Apply basic properties of concrete, wood and steel to appropriate uses of each
- Correctly interpret structural drawing symbols and notes
- Recognize risks associated with changes to structural design details while balancing the need for construction progress
- Identify and initiate solutions to basic structural design issues through the designer of record or other designated authority and properly document and communicate any changes to the contract documents

#### Outcome will be assessed by:

- Class Discussion
- Written Exercises
- Written Exams

Instructional Methods: Class sessions will consist of lecture/discussions, in-class exercises and review of text question & exercise assignments. Local structural engineers and design consultants will be invited to address the class.

Course Calendar: See Schedule of Topics.

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 tobacco usage is not allowed 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 back into the main corridor.
   Exits may be reached by going either direction down the main corridor. Fire alarm pull stations and fire extinguishers are located at each end of 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 by the end of the following class day that they are assigned. Late work may be assessed 5 points per class period late.
- Cell phones off please except emergencies.

#### Evaluation:

- Assignments: Chapter Review Questions and/or Exercises from the respective text readings will be evaluated.
- Exams: There will be three "open book" exams each worth 150 points. There may be
  true/false questions, essay questions, multiple-choice questions or matching terms with
  definitions. Questions will be derived from the assigned text reading, handouts, and
  lecture information. A Study Guide will be reviewed in class prior to each exam.
  Attendance during the Review is highly recommended for success on exams.
- 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.
- Attendance & Participation: Up to 10 points towards student's grades will be awarded
  for each class attended. In case of absence, points may be awarded at the Instructor's
  discretion if prior notice of unavoidable absence is given. Full points for a class
  session may not be awarded if the student arrives late and/or leaves early.

Grading Policy: All grades are determined by competency-based criteria evaluation. Students are evaluated primarily on individual performances versus by 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, plagiarism, and disruptive behavior is per current UAF Catalog guidelines.

#### Grade Tabulation:

		Ciddi	ng codic: (noto: no ir giddco)
Quiz 01	50 pts		
Quiz 02	50 pts	Α	90%
Assignments	200 pts	В	80%
Class Exercises	100 pts	С	70%
Exam #1	150 pts	D	60%
Exam #2	150 pts		
Exam #3	150 pts		
Participation	150 pts		
Total Points	1,000 pts		

Grading Scale: (note: no +/- grades).

### **Support Services:**

The Community & Technical College (CTC) Student Assistance 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 & Technical College Center, 604 Barnette Street, Fairbanks, Alaska 99701, telephone (907) 455-2851, or visit online at http://www.tctc.uaf.edu/stuassist.html.

### **Disability Services:**

UAF has a Disability Services office that operates in conjunction with the Community & Technical College. Disability Services, a part of UAF's Center for Health and Counseling, provides academic accommodations to enrolled students who are identified as being eligible for those services. If you believe you are eligible, please visit <a href="http://www.uaf.edu/chc/disability.html">http://www.uaf.edu/chc/disability.html</a> on the web or contact CTC's Student Assistance and Advising Center (455-2800). You can also contact Disability Services on the Fairbanks Campus at (907) 474-7043, <a href="mailto:fydso@uaf.edu">fydso@uaf.edu</a>.

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/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**

Sep 06 – Dec 13, 2016 Tues 6:00pm – 9:00pm

## **CM F231 Structural Technology**

Instructor: Galen Johnson

# Class 01 Sep 06

Introduction, Class Schedule, Policies and Procedures. Browse text: Statics and Strength of Materials for Architecture and Building Construction (SSM)

### Class 02 Sep 13

Topic: Loads & Reactions

Reading: SSM Preface & Chapter 1
Greatest Structures (GS) video #2: Forces

# Class 03 Sep 20

Topic: Statics

Reading: SSM Chapter 2 GS #7 Trusses video

#### Class 04 Sep 27

Topic: Analysis

Reading: SSM Chapter 3 GS #8 Cables & Arches video Tacoma Narrows Bridge info

### Class 05 Oct 04

Topic: Load Tracing Reading: SSM Chapter 4 GS #3 Stress/Strength video Exam #1 Study Review

#### Class 06 Oct 11

Exam #1

#### Class 07 Oct 18

Review Exam Results
Topic: Strength of Materials
Reading: SSM Chapter 5
GS #9 Loads/Systems video

# Class 08 Oct 25

Topic: Cross sectional Properties Reading: SSM Chapter 6

GS #4 Materials Properties video Pile foundations in permafrost info

### Class 09 Nov 01

Topic: Bending & Shear Simple Beams

Reading: SSM Chapter 7
GS #6 Beams/Bending video
Review exam results

#### Class 10 Nov 08

Topic: Bending & Shear Stresses Reading: SSM Chapter 8 P.E. Guest Presentation and/or St. Louis Arch Construction video Exam #2 Study Guide

# **Class 11 Nov 15**

Exam #2

## Class 12 Nov 22

Review Exam #2 Results

**Topic: Columns** 

Reading: SSM Chapter 9
GS #5 Columns/Buckling video

## Class 13 Nov 29

Topic: Connections

Reading: SSM Chapter 10

NTSB I-35 Bridge Collapse infomation Eiffel Tower Construction video

### Class 14 Dec 06

**Topic: Architecture & Construction** 

Reading: SSM Chapter 11 Exam #3 Study review

#### Class 15 Dec 13

Exam #3

NOTE: Schedule subject to change by Instructor upon prior notice.