Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a complete description of the rules governing curriculum & course changes.

Department Aviation Maintenance AFPM Roger Weggel Propared by Email riweggel@alaska.edu 2. COURSE IDENTIFICATION: Dept ELT Substify upper/lower division status & number of credits: 3. PROPOSED COURSE TITLE: Advanced FCC Amateur and General Radiotelephone Operator (GROL) Licensing 4. To be CROSS LISTED? No If yes, Dept. No If yes, Dept. College/School UAF/Community and Technical College Phone Phone Phone Phone Phone Phone Roger Weggel X X X Avaition Desired X Lower Division (200) Course with 100 level course prerequisites Advanced FCC Amateur and General Radiotelephone Operator (GROL) Licensing 4. To be CROSS LISTED? No Dept: (Requires approval of both departments and deans involved. Add lines at end of form for such signatures.) 5. To be STACKED? No If yes, Dept: Course # Course # Course # Course # Course Preserved Spring or as Demand Warrants	Department Aviation Maintenance AFPM Roger Weggel Propared by Email rfweggel@alaska.edu Paculty Contact 1. ACTION DESIRED Lower Division (200) Course with 100 level course prerequisites 3. PROPOSED COURSE TITLE: Advanced FCC Amateur and General Radiotelephone Operator (GROL) Licensing 4. To be CROSS LISTED? Roger Weggel No If yes, Dept: Roger Weggel No If yes, Dept: Roger Weggel Solved Advanced FCC Amateur and General Radiotelephone Operator (GROL) Licensing 1. Action Desired Roger Weggel No If yes, Dept: Roger Weggel No If yes, Dept: Roger Weggel No If yes, Dept: Roger Weggel Spring or as Demand Warrants		· · · · · · · · · · · · · · · · · · ·			-	
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	distribution, cross-listings and/or stacking (50 words or less if possible):	
	ELT F211 Advanced FCC Amateur and General Radiotelephone Operator (GROL) Licensing	
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These will be required before the student is allowed to enroll in the course.

Aviation Maintenance, allowing for expanded career opportunities in the avionics and flight control systems field, and extend the course options who are interested in electronics technology. The FCC licenses increase the employability of the students. JUSTIFICATION FOR ACTION REQUESTED The number of the description and annual side assurtantian association is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. lason igarous this is your morners Mhia castica Use as much space as needed to fully justify the proposed course. This course was initiated by the Aviation Maintenance facility and contract employees ... 41. - This large A is __ Thanks ...

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	ATTACH COMPLETE SYLLABUS (as part of this application). Note: The guidelines are online:
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	The Faculty Senate curriculum committees will review the syllabus to ensure that each of the i listed below are included. If items are missing or unclear, the proposed course (or changes to 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, \(\Pi\) number, \(\Pi\) credits, \(\Pi\) prerequisites, \(\Pi\) location, \(\Pi\) meeting time (make sure that contact hours are in line with credits).
	2. Instructor (and if applicable. Teaching Assistant) information:
<u> </u>	
	☐ Name, ☐ office location, ☐ office hours, ☐ telephone, ☐ email address.
	3. Course readings/materials:
	\square Course textbook title, \square author, \square edition/publisher.
	☐ Supplementary readings (indicate whether ☐ required or ☐ recommended) and
	any supplies required.Course description:
	Content of the course and how it fits into the broader curriculum;
	Expected proficiencies required to undertake the course, if applicable.
	\square Inclusion of catalog description is $strongly$ recommended, and

Course Syllabus University of Alaska Fairbanks Campus

Term: Spring 2013 Course Title: Advanced FCC Amateur and General Radiotelephone Operator (GROL) Licensing	
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Course (Goals:	
•	1. Upon successful completion of the course the student should have the theoretical	d
	kpawledge to pass the FCC General Radiotelenhone Operator Testavith the Rado	
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	Endorsement or an Amateur Extra Class License	
	2. Understand and follow RF safety procedures and regulations	
	3. Design RF filtering systems	
	4. Design transmission lines	
	5. Design antennas for specific frequencies, and directions	
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	7. Design and calculate AC circuits	
	8. Operate test equipment designed for radio work.	
	9. Install, operate, and trouble shoot radio systems.	

	Course Calend	lar:
•	Week 1:	FCC Commercial and Amateur License Overview
		1. Grading policy for obtaining licenses
		2. Introduction to ARRL Handbook, GROL Plus textbook, and other study materials.
·		3 Propryjery of Student / Class project
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		4. Radio Frequency safety and regulations
	Marala 2.	5. FAA and FCC Regulations Review of Electronics
	Week 2:	1. Ohm's Law DC and AC
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		2. Designed advanced test equipment
		3. Basic and advanced test equipment
		4. Schematics
	Week 3:	AC and RF Electronics
~	week 5.	AC AND THE ELECTIONICS
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		2. Transformers
		3. RF Safety and Interference Issues
	Week 4.	Advanced Electrical Math
	WEEK 4.	Pythagorean Theorem
		2. The Imaginary Number and Complex Systems
		Trigonometry and Advanced Programmable Calculating
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Week 7.	Receiver and Transmitter Sections
•	1. Tuners
	2. RF Amplifier
	3. Mixers
	4. Oscillators
	5. IF Filter
	6. IF Amplifier
	7. Demodulator
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	8. AF Amplifier
	9. Amplitude Modulator
	10. RF Oscillator
	11 <u>R</u> F Ոսէոսt Amplifier _{Կ.}
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	12. Coupling transformers
Week 9.	Transmission Systems
	1. Transmission line types
	2. Transmission line losses
	3. Transmission line design
	4. Transmission line connections and testing
Week 10.	Antonno Contono
Week 10.	Antenna Systems
	1. Antenna types
	2. Antenna gain and loss3. Antenna modeling
	4. Antenna trouble shooting
	5. Antenna radiation patterns
Week 11.	Radar Theory and Practices
WEEK II.	1. Pulse, Continuous – Wave, and Doppler Radar operation
	2. Radar safety and installation requirements
	3. Radar frequency transmission lines and design
Week 12.	Technical Writing
WCCK 12.	Writing for amateur publications
	2. Writing for professional publications
	3. Legal and quality control reports 3. The second reports the secon
Week 13.	Student Project Presentations
AAGGK TJ.	Statent i roject i resentations
Field Day.	Field Operation

Transmitting and Receiving equipment installation 2 hrs.

Antenna Installation 1 hr.

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Note: Travel not included in class time, students are responsible for their own travel.

Aviation student's independent homework: Review maintenance, repair, alteration, and record keeping requirements for aircraft of the current Title 14 Code of Federal Regulations.

	Students are required to follow the University's Code of Conduct and Student Dehavior Standards in
	accordance swith the hourd of renent's policies. See the LLAF 20011 2012. Catalog nega 50 and 51, or
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