Revised 4/27/2012 per Curriculum Review Committee

FORMAT 1

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.

TRIAL COURSE OR NEW COURSE PROPOSAL

SU	BMITTED BY:												
I	Department	Petroleum E	ngine	neering College/School			СЕМ						
	Prepared by	Catherine Ha	nks			Phone			474-5562 or 2668				
1	Email Contact	<u>chanks@gi.a</u>	laska	ka.edu Faculty Contact			chanks@gi.alaska.edu			aska.edu			
	1. ACTION DE	SIRED (CHECK ON	(E):	Trial Course			New	New Course					
	2. COURSE ID			Dept PETE Course # 646			No	of C	redits	3			
	Justify upper status & nun	/lower division nber of credits:	Cou engi cou diffe real pres	Course will require 300 level geoscience courses or graduate standing in petroleum engineering or permission of the instructor; course will be predominantly a lecture-based course with in-class exercises and homework. Students enrolled in 646 will be assigned different and more complex homeworks that will incorporate learning software and using real-life datasets. Students enrolled in 646 will also be expected to do a paper and presentation.									
3	3. PROPOSED	COURSE TITLE:					Petroleu	m G	eology				
2	4. To be CROSS LISTED? YES/NO			Yes and deans in	If ye	es, Dept: Add line	GEOS	rm fo	Cou or such s	<mark>rse #</mark> ignatur	446 res.)	646	
5 }	5. To be STACKED? YES/NO			Yes	lf ye	es, Dept.	GEOS		Cou	rse #	446		
6 7	5. FREQUENCY 7. SEMESTER & f approved by 3	YEAR OF FIRST	OFFER Se AY2	Alterna Fall, Spring, RING (AY2 2012-13)	te Fall , Summer 011-12	· (Every, o	r Even-numb Demand Y 2012-201	ered d Wa 3	Years, c arrants	or Odd-	-numb	pered Yea	ars) — or As
 8. COURSE FORMAT: 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. Furthermore, any core course compressed to less than six weeks must be approved by the core review committee. COURSE FORMAT: (check all that apply) 1 2 3 4 5 X 6 weeks to full semester OTHER FORMAT (specify) Mode of delivery (specify) 							an six weeks six weeks <u>ks to full</u> ter						
	lecture, field t	rips, labs, etc)											
9. CONTACT HOURS PER WEEK: 3 LECTURE hours/weeks LAB hours /week PRACTICUN hours /week Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/guidelight for-computing-/ for more information on number of credits.						CTICUM s /week ie=1 credit. ip=1 credit. -/guidelines-							
(OTHER HOUR	S (specify type)											
10.	COMPLETE CA stacking (50 PETE F64	ATALOG DESCRI words or less if p 6	PTION oossibl Petr	√ including le): oleum (g dept., i Geolog	number, Y	title, credit	's, cr	redit dis	stribut	tion, o	cross-lis	tings and/or
	3 Credits Offered Fall Even-numbered Years												

Offered Fall Even-numbered Years

Examines the origin of petroleum, the geologic controls on its distribution and accumulation

and the basic tools used exploration and exploitation, including subsurface mapping, well logging and exploration geophysics. *Prerequisites: Graduate standing or permission of the instructor*. Cross-listed with GEOS F646. Stacked with GEOS F446. (3 + 0)

GEOS F646

3 Credits

Petroleum Geology

Offered Fall Even-numbered Years

Examines the origin of petroleum, the geologic controls on its distribution and accumulation and the basic tools used exploration and exploitation, including subsurface mapping, well logging and exploration geophysics. *Prerequisites: Graduate standing or permission of the instructor*. Cross-listed with PETE F646. Stacked with GEOS F446. (3 + 0)

GEOS F446 Petroleum Geology

3 Credits Offered Fall Even-numbered Years

Examines the origin of petroleum, the geologic controls on its distribution and accumulation and the basic tools used exploration and exploitation, including subsurface mapping, well logging and exploration geophysics. *Prerequisites: GEOS F314 and F322 or equivalent*. Stacked with GEOS F646. (3 + 0) permission of the instructor.

11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank.

 H = Humanities
 S = Social Sciences

Will this course be used to fulfill a r for the baccalaureate core? If YES, a	YES:	NO: X	K				
IF YES, check which core requiremen O = Oral Intensive, Format 6	Natural S	Science, Format 8					
2. COURSE REPEATABILITY:							
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 repeated for credit?							
If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?							
If the course can be repeated with <u>variable</u> credit, what is the maximum number of credit hours that may be earned for this course?							

13. GRADING SYSTEM: Specify only one. Note: Later changing the grading system for a course constitutes a Major Course Change.

	LETTER: X PASS/FAIL:
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RESTRICTIONS ON ENROLLMENT (if any)								
14. PREREQUISITES	GEOS and PETE 646: Graduate standing and permission of instruction; GEOS 446: GEOS 314 and 322 or x4xxxxxx permission of the instructor.							
These will be <i>required</i> before the student is allowed to enroll in the course.								
15. SPECIAL RESTRICTIONS, CONDITIONS none								
16. PROPOSED COURSE FEES	\$ 0							
Has	a memo been submitted through your dean							

				to t Yes	ne Prov / No	vost	for fee app	roval?			
17.	PRI	EVIOUS	S HIST	ORY	ffered	as si	pecial tonic	s or trial course previous	v?	Ves	
	3	/es/No	course	been o	nereu i	us sp	icelar topic.	s or that course previous	y.	105	
	li	f yes, giv	ve sem	ester, y	ear, co	urse	#, etc.:	GEOS/PETE 494/694	Fall 2008, 209, 2	010	
18.	EST				N/ 14/11					FTC	
		vHAT II No addi	MPAC	impac	t. Use	s ex	tisting space	CR BUDGET, FACILITIES	/SPACE, FACULTY,	ETC.	_
							8-1				
19.	LIB	RARY C	OLLE	CTION	5						
	Ha ad	ave you lequacy	contae of libra	cted the ary/med	library lia coll	/ col lectio	llection dev ons, equipn	elopment officer (kljense nent, and services availat	n@alaska.edu, 474-6 ble for the proposed -	5695) with regard to course? If so, give da	the ate of
	со	ntact an	nd reso	lution.	lf not,	expl	lain why no	ot.			
		No	x	Yes			No addition Supplements subscription	onal material needed oth ntal readings will be acq ons.	er than what is alrea uired by ILL or via e	idy available. xisting journal	
20.	ІМ	PACTS	ON PR	OGRA/	MS/DE	PTS					
	W	hat pro	grams	/depai	tment Prograu	ts W	ill be affec	cted by this proposed a	ction?		
[This course will provide an additional elective for both the Petroleum Engineering and Geology										
	de	partme	ents.								
		0					-				
21. POSITIVE AND NEGATIVE IMPACTS Please specify positive and negative impacts on other courses, programs and departments resulting from the											
[No	o negati	ive im	pact or	any c	othe	r courses,	programs or departme	ents is anticipated.	On the positive sid	le,
	thi cro	is cours oss-liste	se wou ed cou	ıld pro rse, thi	vide a is class	n ad s wo	lditional el ould provic	lective for both enginee de an opportunity for s	ering and geology u tudents from both	Indergraduates. A departments to	sa
	int	teract.	The c	ourse v	vould	also	strengthe	en ties between the geol	ogy and petroleum	engineering	
	hı	ograms	•								

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 education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

Although petroleum exploration and production is the economic backbone of the state, there is no course offered currently at UAF that addresses the origin of and geologic controls on the distribution of hydrocarbons. This course will provide those UAF undergraduates and graduate students most likely to pursue jobs in industry with valuable information and skills that they will need to work in the petroleum industry.

CEN	1 signatur	es as
APPROVALS: Add additional signature lines as needed.	per attac	hed.
	Date	
Signature, Chair, Program/Department of:		
	Date	······
Signature, Chair, College/School Curriculum Council for:		
	Date	
Signature, Dean, College/School of:	······································	
	Date	
Signature of Provost (if applicable)		

Offerings above the level of approved programs must be approved in advance by the Provost.

	p=	
	Date	
Signature, Chair Faculty Senate Review Committee:Curriculum Review	GAAC	
Core ReviewSADAC		

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

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Sank hwell	Date 9/28/11
Signature, Chair, Program/Department of: Geology + Geo	physics
Le	Date (0/4/1)
Signature, Chair, College/School Curriculum Council for:	18N
- Cantw Jam	Date 0217,2020
Signature, Dean, College/School of: CNSM	

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APPROVALS: Add additional signature lines as needed.		
	Date	9/20/11
Signature, Chair, Program/Department of:		
Alebasmita Missa	Date	9/30/11
Signature, Chair, College/School Curriculum Council for:		
Charles & Mayo	Date	10/12/11
Signature, Dean, College/School of: J CEM		
Sugar Hundes	Date	10/15/11
Signature of Provost (if applicable) Offerings above the level of approved programs must be approved in	advance	by the Provost.
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO	THE GO	VERNANCE OFFICE
		
	Date	
Signature Chair		

Signature, Chair Faculty Senate Review Committee: ___Curriculum Review ___GAAC

___Core Review ___SADAC

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

	Date	
Signature, Chair, Program/Department of:		
	Date	
Signature, Chair, College/School Curriculum Council for:		
	Date	
Signature, Dean, College/School of:		

ATTACH COMPLETE SYLLABUS (as part of this application). Note: The guidelines are online:

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 missing or unclear, the proposed course (or changes to it) may be <u>denied</u>.

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:

 \Box Name, \Box office location, \Box office hours, \Box telephone, \Box email address.

3. Course readings/materials:

- \Box Course textbook title, \Box author, \Box edition/publisher.
- □ Supplementary readings (indicate whether □ required or □ recommended) and
- **a**ny 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. <u>Be specific</u> 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 □ 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 <u>as applicable</u> to this course. (Not required in the syllabus, but may be a convenient way to publicize this.) Faculty Senate Meeting #171:

http://www.uaf.edu/uafgov/faculty-senate/meetings/2010-2011-meetings/#171

11. Support Services:

Describe the student support services such as tutoring (local and/or regional) appropriate for the course.

12. Disabilities Services:

The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures 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. 6/30/2011

GEOS 446

Petroleum Geology

3 credits

Hydrocarbons fuel today's economy, but remain a relatively rare natural resource. The objective of this course is to review the geologic controls on the distribution and accumulation of hydrocarbons, how those hydrocarbons are found, and how they are subsequently extracted. At the end of the course, students should be able to explain:

- the subsurface environment
- the origin and nature of hydrocarbons
- how and where hydrocarbons accumulate
- methods of hydrocarbon exploration and exploitation
- unconventional hydrocarbon resources
- basic reservoir engineering techniques

Examples from classic hydrocarbon-producing regions will be used to illustrate the principles and techniques discussed in class.

Prerequisites: Geos 314 and 322 or equivalent

Instructor: Cathy Hanks, NSB 346/Duckering 417, 474-5562 or 2668 <u>chanks@gi.alaska.edu</u>

Office Hours: TBD

Text: Selley, 1999, Elements of Petroleum Geology. Academic Press, 470 p.

Class format:

The class will consist of lectures and homework assignments.

Grading Policy

The course grade will be a letter grade (plus, minus) and will be based on:

- 2 mid-term exams (25% each)
- final exam (25% each)
- homeworks (25%)

Grades will be assigned as follows:

A+=97-100%

 $\begin{array}{l} A = 93-96 \\ A- = 90-92 \\ B+ = 87 - 89 \\ B = 83-86\% \\ B- = 80-82 \\ C+ = 77-79 \\ C = 73 - 76\% \\ C- = 70 - 72 \\ D+ = 65-69 \\ D = 55-64\% \\ D- = 50 - 54 \\ F = <54\% \end{array}$

The instructor reserves the right to curve the grades where appropriate.

Late homeworks will not be accepted.

COURSE OUTLINE: (28 CLASS DAYS)

Week	Торіс	Homeworks	Readings
1	Intro—Why petroleum?		
	What is Petroleum?		Selley Ch. 2
	• Organic vs. inorganic origin of		
	petroleum		
	Chemical Properties		
	Physical Properties		
2	The subsurface environment	Hwk 1: Calculating	Selley, Ch. 4
	• Temperature within the earth	geothermal	
	• Pressure	gradients	
	• Subsurface waters		
	Methods of Exploration	Hwk 2: Rock id	Selley, Ch. 3.1, 3.2,
	• Drilling a well		3.5
	Well logging		
3	• Subsurface geology and maps	Hwk 3: Examining	
	Formation Evaluation	well cuttings and	
		well logs	
	Gravity and Magnetics		
4	Geophysical methods—Reflection	Hwk 4: Interpreting	Selley, Ch. 3.3
	Seismicacquisition	seismic	
	• Seismic interpretation, 3 D, 4D		
5	The source: How oil forms		Selley, Ch. 5
	 Source rock characteristics 		
	• Productivity and Preservation of		
	Organic Matter.		
	 Hydrocarbon Maturation 		

	Hydrocarbon Migration		
	Midterm I		
6	 The Reservoir: What makes a good reservoir rock? Porosity. Permeability. Effects of Diagenesis on Reservoir Quality. 	Hwk 5: Evaluating porosity and permeability in hand samples	Selley, Ch. 6.1-6.7
	 Measuring reservoir properties Lab measurements Log evaluations 		
7	 Reservoir Continuity—the importance of depositional environment: Variations due to sed structure Mesoscopic and map scale variations 		
	• Carbonate depositional systems: a different beast	Hwk 6: Correlating logs; Constructing subsurface isopach maps	
8	• Reservoir prediction in the subsurface: the importance of sequence stratigraphy	Hwk 7: Sequence stratigraphic interpretation of seismic data	
	 Traps and Seals: Nomenclature of a Trap. Distribution of Petroleum within a Trap.—Gas, oil, water Characteristics of Seals and Cap Rocks. 		Selley, Ch. 7
9	 Trap types: Structural Traps. Stratigraphic Traps. Combination Traps. Hydrodynamic Traps. 	Hwk 8: Constructing subsurface structure maps; Identifying play types from subsurface structure maps	
	Salt-related structures		
10	Midterm II		

	• Structural modifications of a reservoir: Fractured reservoirs		
11	 Timing of Trap Development Relative to Migration. Petroleum systems & plate tectonic habitat Passive continental margins Passive continental margins, cont 	Hwk 9: Using seismic data for structural interpretation and timing	Selley, Ch. 8
12	Convergent marginsStrike slip basins	Hwk 10: Plate tectonic setting of modern day basins	
	Reservoir engineering:Reserve calculations	Hwk 11: Simple reserve calculation	Selley, Ch. 6.8-6.9
13	Well Drilling and Completion		
	 Non conventional hydrocarbon resources Viscous oil Gas hydrates Coal bed methane 		
14	Tight gasShale resource plays		

Course Policies: Attendance at class is your responsibility. Students are responsible for making up any missed work. Students are encouraged to arrive to class on time. Make-up examinations will be held only under exceptional circumstances (e.g. illness, family crises, etc.). Medical documentation will be required to confirm illnesses. We follow the university guidelines for plagiarism/academic integrity as outlined in the current UAF catalog (p. 71-72).

Disability Services: The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. We will work with the Office of Disabilities Services (203 WHIT, 474-5655) to provide reasonable accommodation to students with disabilities.

4/27/2012: revised

PETE/GEOS 646

Petroleum Geology

3 credits

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- the subsurface environment
- the origin and nature of hydrocarbons
- how and where hydrocarbons accumulate
- methods of hydrocarbon exploration and exploitation
- unconventional hydrocarbon resources
- basic reservoir engineering techniques

Examples from classic hydrocarbon-producing regions will be used to illustrate the principles and techniques discussed in class.

Students will be assigned additional readings each week that expand on the topics discussed in class. Students will then use the concepts and techniques discussed in both the class and the readings to research a petroleum topic related to their own area of research. Results will be summarized as a paper and presented to the class as a short presentation.

Prerequisites: Graduate standing or permission of the instructor

Instructor: Cathy Hanks, NSB 346/Duckering 417, 474-5562 or 2668 chanks@gi.alaska.edu

Office Hours: TBD

Text: Selley, 1999, Elements of Petroleum Geology. Academic Press, 470 p.

Additional readings will be assigned each week to augment the lectures.

Class format:

The class will consist of lectures and homework assignments. Additional readings will be assigned each week to augment the lecture material given in class.

Grading Policy

The course grade will be a letter grade (plus, minus) and will be based on:

• 2 mid-term exams (20% each)

- final exam (20% each)
- homeworks (20%)
- final project paper & oral presentation (20%)

Students will meet with the instructor during the first 2 weeks of class to determine the topic of the research project. The results of the project will be presented as an 8-10 page research paper, and in a 10 minute oral presentation to the class. Both papers and oral presentations will be graded on technical content and quality of presentation.

Grades will be assigned as follows:

 $\begin{array}{l} A+=97\text{-}100\%\\ A=93\text{-}96\\ A-=90\text{-}92\\ B+=87\text{-}89\\ B=83\text{-}86\%\\ B-=80\text{-}82\\ C+=77\text{-}79\\ C=73\text{-}76\%\\ C-=70\text{-}72\\ D+=65\text{-}69\\ D=55\text{-}64\%\\ D-=50\text{-}54\\ F=<54\%\\ \end{array}$

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	• Organic vs. inorganic origin of		
	petroleum		
	Chemical Properties		
	Physical Properties		
2	The subsurface environment	Hwk 1: Calculating	Selley, Ch. 4
	• Temperature within the earth	geothermal	
	• Pressure	gradients	
	• Subsurface waters		
	Methods of Exploration	Hwk 2: Rock id	Selley, Ch. 3.1, 3.2,
	• Drilling a well		3.5
	Well logging		

3	• Subsurface geology and maps	Hwk 3: Examining	
	Formation Evaluation	well cuttings and	
		well logs	
	Gravity and Magnetics		
4	 Geophysical methods—Reflection 	Hwk 4: Interpreting	Selley, Ch. 3.3
	Seismicacquisition	seismic	
	• Seismic interpretation, 3 D, 4D		
5	The source: How oil forms		Selley, Ch. 5
	Source rock characteristics		
	• Productivity and Preservation of		
	Organic Matter.		
	Hydrocarbon Maturation		
	Hydrocarbon Migration_		
	Midterm I		
6	The Reservoir:	Hwk 5: Evaluating	Selley, Ch. 6.1-6.7
	what makes a good reservoir rock?	porosity and	
	Porosity. Democratility.	hand samples	
	• Permeability.	nanu sampies	
	• Effects of Diagenesis on Reservoir		
	Quality.		
	• Measuring reservoir properties		
	\circ Lag measurements		
7			
1	• Reservoir Continuity—the		
	anyironment:		
	\circ Variations due to sed		
	structure		
	• Mesoscopic and map scale		
	variations		
	• Carbonate depositional systems: a	Hwk 6: Correlating	
	different beast	logs; Constructing	
		subsurface isopach	
		maps	
8	• Reservoir prediction in the	Hwk 7: Sequence	
	subsurface: the importance of	stratigraphic	
	sequence stratigraphy	interpretation of	
	Trong and Soalse	seismic data	Sollar Ch 7
	Nomonalatura of a Tran		Selley, Cli. /
	 Noncholature of a frap. Distribution of Patroloum within a 		
	• Distribution of Petroleum within a TranGas oil water		
	Characteristics of Seals and Can		
	- Characteristics of Sears and Cap Rocks		
	Rooks.		

9	 Trap types: Structural Traps. Stratigraphic Traps. Combination Traps. Hydrodynamic Traps. Salt-related structures 	Hwk 8: Constructing subsurface structure maps; Identifying play types from subsurface structure maps	
10	Midtown H		
10			
	• Structural modifications of a reservoir: Fractured reservoirs		
11	 Timing of Trap Development Relative to Migration. Petroleum systems & plate tectonic habitat Passive continental margins 	Hwk 9: Using seismic data for structural interpretation and timing	Selley, Ch. 8
	 Passive continental margins, cont 		
12	Convergent marginsStrike slip basins	Hwk 10: Plate tectonic setting of modern day basins	
	Reservoir engineering:Reserve calculations	Hwk 11: Simple reserve calculation	Selley, Ch. 6.8-6.9
13	Well Drilling and Completion		
	Non conventional hydrocarbon resources		
	Viscous oil Cag hydrates		
	Gas hydratesCoal bed methane		
14	Tight gasShale resource plays		
	Student presentations		

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