FORMAT 1

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Tw 2 Tr 8.04 0 0 8.04 176.

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											

12. COURSE REPEATABILITY:

Is this course repeatable for credit?	YES [ ]	NO [X]

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?	[ ] TIMES
If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?	[ ] CREDITS
If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course?	[ ] CREDITS

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

LETTER: [X] PASS/FAIL: [ ]

RESTRICTIONS ON ENROLLMENT (if any)

little impact on other department, except on department of Chemistry and Biochemistry if this course is cross-listed. Importantly, this course will increase diversity of human-health related courses offered at UAF – this will help broadening spectrum of biomedical education offered in Alaska.

21. POSITIVE AND NEGATIVE IMPACTS

SEE ATTACHEDSIGNATURES

Syllabus: Introduction to Biology of Cancer.

BIOL F4XX

Disabilities: I will work with the Office of Disabilities Services (Whitaker Building, Room 208, Tel: (907) 474-5665) to provide accommodations and equal access to all materials in this course to all students.

Grading: Your final grades will be based on the following:

(1) Exams (450 points): There will be four exams during the semester, one of which is the final exam. Each exam will count for 100 points (300 points total). The final exam (150 points) will be cumulative. The questions at the end of each chapter are an excellent study guide. I strongly suggest that you test yourself with these questions after reading each chapter. Twenty points from each exam will be in the form of take-home questions in which you apply the knowledge you learn in class to solve problems. During exams (except Final Exam) students are allowed to use their hand-written notes, because of this taking good notes during class lectures and presentations is very important. Each exam will contain "take-home" part (usually 15-20% of exam grade). Graduate students are expected to search NCBI (http://www.ncbi.nlm.nih.gov/pubmed) for the recent research article and provide answer based on gained information.

(2) Current topics in the biology of cancer presentation (75 points): These presentations are an opportunity for us all to learn more about current issues in cancer biology. I will provide one background article to get you started. You will need to research additional material for your presentation. Undergraduate students will work in groups of three, and you can divide the work in any way you choose, however each of you must speak an equivalent length of time. The presentations should be approximately 45 minutes in length (total), so you can estimate ~15 min. per person. Graduate students will do their presentation alone, length of presentation 30 minutes, use of research articles required. Presentations should include sufficient background information on the topic and then cover any controversies related ide.t1(i)-2(e)4(s)-1-2())3(, s) b:// si-10(g)10(r)3(ou4(.)]TJ 0 D0.16 Tm [2(i)-rn)-4(t)-6[(oh]TJ C;68e)4(s)pes rsy cntnuteorp in l,s4(s)-

In summary your grade will be based on the following:

		BIOL 4XX (undergraduate level)	BIOL6XX (graduate level)
	Exams	3 x 100 = 300	3 x 100 = 300
	Final exam	150	150

Date	Lecture	Exam	Book Chapter
9/ 9	Introduction: Biology and Genetics of Cells and Organisms		Ch 1
9/1 1	The Nature of Cancer		Ch 2
9/1 6	Tumor Viruses		Ch 3
9/1 8	Cellular Oncogenes		Ch 4
9/23	Growth Factors, Receptors, and Cancer		Ch 5
9/2 5	Cytoplasmic Signaling Circuitry Programs		Ch 6
9/30		Exam 1	
10/ 2	Tumor Suppressor Genes		Ch 7
10/ 7	pRb and Control of the Cell Cycle Clock		Ch 8
10/ 9	p53 and Apoptosis: Master Guardian and Executioner		Ch 9
10/ 14	Eternal Life: Cell Immortalization and Tumorigenesis		Ch 10
10/1 6	Multi-Step Tumorigenesis		Ch 11
10/ 21		Exam 2	
10/2 3	- - NO Class Mid Break- -		
10/2 8	- - NO Class Mid Break- -		
10/ 30	Multi-Step Tumorigenesis Current Topics in Cancer Research. Student's presentation		Ch 11
11/4	Maintenance of Genomic Integrity and the Development of Cancer I		Ch 12
11/ 6	Maintenance of Genomic Integrity and the Development of Cancer II		Ch 12
11/ 11	Heterotopic Interactions and the Biology of Angiogenesis		Ch 13
11/1 3	Moving Out: Invasion and Metastasis		Ch 14
11/1 8	Stem Cells and Cancer Current Topics in Cancer Research. Student's presentation		
11/ 20		Exam 3	
11/2 5	Crowd Control: Tumor Immunology & Immunotherapy I		Ch 15

11/2 7	Crowd Control: Tumor Immunology & Immunotherapy II	Ch 15