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	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.
	complete description of the rules governing curriculum & course changes.
	TRIAL COURSE OR NEW COURSE PROPOSAL
	SUBMITTED BY:
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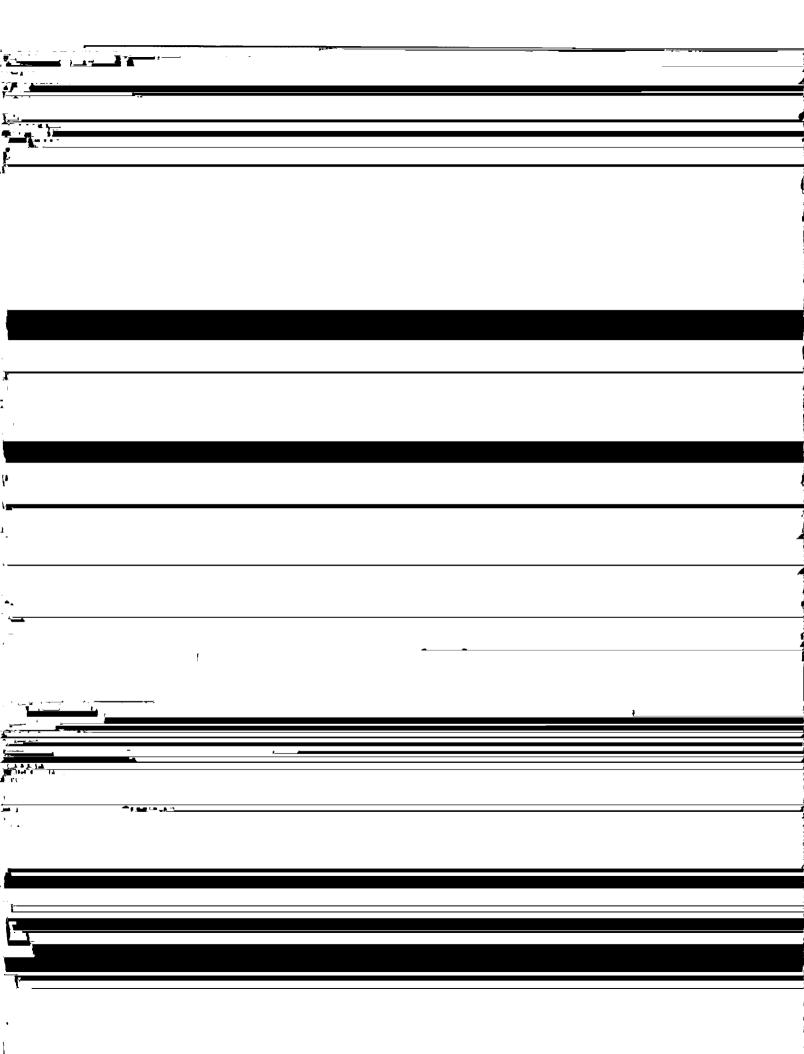
Students will spend additional time in completing homework

OTHER HOURS (specify type)

assignments. This non-contact time will vary by students.

	RESTRICTIONS ON ENROLLMENT (if any)	
	14. PREREQUISITES GEOG 111x or GEOS 101x or permission of instructor.  These will be required before the student is allowed to enroll in the course.	
	15. SPECIAL RESTRICTIONS, None CONDITIONS	
	16. PROPOSED COURSE FEES None	
	Has a memo been submitted through your dean to the Provost & VCAS for fee approval2. YesNo	
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	If yes, give semester, year, course #, etc.:	
	18. ESTIMATED IMPACT WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.	
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	between the faculty and leadership in both departments (viz. Cary de Wit; Patricia Heiser; Dave Verbyla; Keith Cunningham: Don Atwood: Anunma Prakash: Bernard Coakley: Sarah Fowell). The
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# Syllabus for GEOS/GEOG 222 - Fundamentals of Geospatial Sciences

#### 1. Course information:

Title:

Fundamentals of Geospatial Sciences

Number:

GEOS 222; GEOG 222

Credits:

3

Prerequisites:

GEOG 111x or GEOS 101x or permission of instructor

Location:

Lectures in WRRB Computer Lab; Room 004

Labs in WRRB Computer Lab; Room 004

Term:

**Every Fall** 

Meeting time:

Lectures: Monday and Wednesday, 2.00 pm to 3.15 pm

Lab: Monday and Wednesday, 3.15 pm to 4.00 pm

### 2. Instructor Information (Proposed):

## Fall (Even Years - Geography-lead instructor)

Dave Verbyla

Office: O'Neill 366

Telephone: 907-4745553

Email:

dlverbyla@alaska.edu

Donald Atwood

Office: GI-206, UAF Telephone: 907-4747380

Email:

dkatwood@alaska.edu

	<ul> <li>Physical Principles of Remote Sensing, by W. G. Rees, Cambridge University Press; 2nd edition, 360 pages. ISBN-13: 978-0521669481</li> </ul>	
	• Geographic Information Systems and Science, Second Edition, by Paul Longley, Michael Goodchild, David Maguire, and David Rhind, John Wiley & Sons and	
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		_
	• GIS Fundamentals, 3rd Edition, by Paul Bolstad, Atlas Books, ISBN: 978-0-9717647-2-9.	
	<ul> <li>Getting to Know ArcGIS Desktop, by Tim Ormsby, Eileen Napoleon, Robert Burke, Carolyn Groessl and Laura Bowde, ESRI Press, 2010, 604 pages. ISBN: 9781589482609.</li> </ul>	
	Griffing Standa with Goographia Information Sweams 5th edition Voith C	
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}	Clarke_Pearson Prentice Hall 2010 384 pages ISBN-10-0131494988 LISBN-	_
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Recommended journals and magazines:

• International Journal of GIS

Student Learning Outcomes: By the end of the course, students will be able to

- Understand the fundamental principles in remote sensing imaging and geospatial data integration and analysis.
- Search and download relevant geospatial data required for a certain project/purpose.
- Visually interpret in a qualitative way a variety of images (optical, infrared, SAR) taken from airborne and satellite platforms.

College and import CBS data using handbold repressional mode CBS units

- Project digital data in different projection systems.
- Compose a simple cartographically sound map which integrates GPS data, with other geospatial data (vector data; raster maps and images).

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assessment, resource allocation, emergency management, change detection, and policy decision-making.

#### 6. Instructional methods:

- 75 minute lecture followed by 45 minute lab, meeting twice a week.
- Lectures will be interactive and will involve use of power point presentations and group discussions. Material will be posted on the web if possible.

