Submit originals (including syllabus) and one copy and electronic copy to the Faculty Senate Office. See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures/ 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.

<table>
<thead>
<tr>
<th>SUBMITTED BY:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>CEE</td>
</tr>
<tr>
<td>Prepared by</td>
<td>Nathan Belz</td>
</tr>
<tr>
<td>Email Contact</td>
<td><a href="mailto:npbelz@alaska.edu">npbelz@alaska.edu</a></td>
</tr>
</tbody>
</table>

1. COURSE IDENTIFICATION: As the course now exists.

| Dept | CE | Course # | 406 | No. of Credits | 3.0 |

COURSE TITLE
Traffic Engineering

2. ACTION DESIRED: √ Check the changes to be made to the existing course.

| Change Course | If Change, indicate below what is changing. | Drop Course |

NUMBER

<table>
<thead>
<tr>
<th>PREREQUISITES*</th>
<th>TITLE</th>
<th>DESCRIPTION</th>
<th>FREQUENCY OF OFFERING</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
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</table>

*Prerequisites will be required before a student is allowed to enroll in the course.

CREDITS (including credit distribution)

ADD A STACKED LEVEL
(400/600) Include syllabi.

<table>
<thead>
<tr>
<th>COURSE CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dept.</td>
</tr>
</tbody>
</table>

How will the two course levels differ from each other? How will each be taught at the appropriate level:

1) Graduate students will have a separate/different third project which will be similar to a directed study on a traffic project of their choosing. Grad students to provide weekly progress reports.

2) Graduate students will help prepare and lead paper discussions.

3) Graduate students must present the findings of their final projects during the last class of the semester; undergraduates do not have the same requirement since their projects are more task oriented and not as involved.

Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi—undergraduate 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 CROSS-LISTING

| Dept. & No. | Requires approval of both departments and deans involved. Add lines at end of form for additional signatures. |

STOP EXISTING CROSS-LISTING

| Dept. & No. | Requires notification of other department(s) and mutual agreement. Attach copy of email or memo. |

OTHER (specify)

3. 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 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:
(check all that apply)

| 1 | 2 | 3 | 4 | 5 | X | 6 weeks to full semester |

OTHER FORMAT (specify all that apply)

Mode of delivery (specify lecture, field trips, labs, etc.)

Lectures, field data collection, computer-based lab exercises
4. 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 fulfill a requirement for the baccalaureate core?  

| YES | NO |

IF YES*, check which core requirements it could be used to fulfill:

- O = Oral Intensive, *Format 6 also submitted
- W = Writing Intensive, *Format 7 submitted
- X = Baccalaureate Core

4A. Is course content related to northern, arctic or circumpolar studies? If yes, a “snowflake” symbol will be added in the printed Catalog, and flagged in Banner.

| YES | NO |

5. 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 with variable credit, what is the maximum number of credit hours that may be earned for this course?  

| CREDITS |

6. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking, clearly showing the changes you want made. (Underline new wording strike-through old wording and use complete catalog format including dept., number, title, credits and cross-listed and stacked.)

Example of a complete description:

PS F450 Comparative Aboriginal Indigenous Rights and Policies (s)
3 Credits
Offered As Demand Warrants

Case study Comparative approach in assessing Aboriginal to analyzing Indigenous rights and policies in different nation-state systems. Seven Aboriginal situations Multiple countries and specific policy developments examined for factors promoting or limiting self-determination. Prerequisites: Upper division standing or permission of instructor.
(Cross-listed with ANS F450.) (3+0)

CE406 - Traffic Engineering - 3 Credits (2+3)
Offered Spring

Operation and control of transportation systems with emphasis on traffic on highways and streets. Traffic control devices, data collection, capacity and level of service analysis, intersection signalization, traffic impact analysis, accident analysis and other safety considerations. Prerequisites: CE F405 or permission of instructor.

7. COMPLETE CATALOG DESCRIPTION AS IT SHOULD APPEAR AFTER ALL CHANGES ARE MADE:

CE406/606 - Traffic Engineering - 3 Credits (2+3)
Offered Spring

Operation and control of transportation systems with emphasis on traffic on highways and streets. Traffic control devices, data collection, capacity and level of service analysis, intersection signalization, traffic impact analysis, accident analysis and other safety considerations. Prerequisites: CE F405, CE302 or permission of instructor.

8. GRADING SYSTEM: Specify only one.

LETTER: x  PASS/FAIL: 

9. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

The only anticipated impact is slightly more time to be invested on the part of the instructor.
10. LIBRARY COLLECTIONS
Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No [x] Yes [ ] Proposed course stacking will draw on same materials/collections, equipment, and services as the existing CE406 course.

11. IMPACTS ON PROGRAMS/DEPTS:
What programs/departments will be affected by this proposed action?
Include information on the Programs/Departments contacted (e.g., email, memo)

Civil Engineering/School of Engineering and Mines

12. POSITIVE AND NEGATIVE IMPACTS
Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.

Stacking with CE406 will require slightly more teaching effort to be invested on the part of the instructor. Stacking will help boost overall student enrollment in the Traffic Engineering course.

13. 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. If you ask for a change in # of credits, explain why; are you increasing the amount of material covered in the class? If you drop a prerequisite, is it because the material is covered elsewhere? If course is changing to stacked (400/600), explain higher level of effort and performance required on part of students earning graduate credit. Use as much space as needed to fully justify the proposed change and explain what has been done to ensure that the quality of the course is not compromised as a result.

Stacking will help to increase enrollment in this course which historically has been cancelled because of insufficient number of undergraduates. The recent spike in CE graduate students will help this course meet the enrollment criteria. A higher level of effort required on the part of the graduate students will be ensured by the incorporation of a more involved and self-directed final project (see Syllabus for more information) requiring weekly progress reports. Graduate students will also be required to present their final projects to their peers and a panel of professionals. Graduate students will also help to prepare and lead in-class paper discussions.
**APPROVALS: Add additional signature lines as needed.**

<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of:</th>
<th>Date</th>
<th>9/25/2015</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signature, Chair, College/School Curriculum Council for:</th>
<th>Date</th>
<th>9-28-15</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signature, Dean, College/School of:</th>
<th>Date</th>
<th>10/5/15</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Signature of Provost (if above level of approved programs)</th>
<th>Date</th>
</tr>
</thead>
</table>

**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

<table>
<thead>
<tr>
<th>Signature, Chair</th>
<th>Date</th>
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</table>

Faculty Senate Review Committee: ___Curriculum Review ___GAAC

___Core Review ___SADAC

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

<table>
<thead>
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<table>
<thead>
<tr>
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<th>Date</th>
</tr>
</thead>
</table>
CE 406 Traffic Engineering
Tentative Spring 2016 Course Syllabus (updated September 25, 2015)

Instructor
Nathan P. Belz, Ph.D.
Email: npbelz@alaska.edu
Office: 245D Duckering
Phone: 907.474.5765

Lectures
9:15am – 10:15am, MWF, Duckering 352

Office Hours
10:30am – 11:30am, MWF, Duckering 245D
or by appointment via email (time and location TBD)

Catalog Data
CE 406, CRN 37361

Course Title
Traffic Engineering

Prerequisites
CE 302 or permission of instructor

Course Description and Topics
Operation and control of transportation systems with emphasis on traffic on highways and streets. Traffic control devices, data collection, capacity and level of service analysis, intersection signalization, traffic impact analysis, accident analysis and other safety considerations.

Credit
3.00 semester hours

Textbook and Readings

NOTE: Earlier editions of this textbook may be available, but differences in the content and assignment of questions may exist. Students are responsible for the material and content in the 2010 edition.

Supplementary readings and notes will be distributed as needed.

Course Objectives
This course is designed to introduce the field of traffic engineering and related disciplines; demonstrate the application of engineering concepts in traffic flow and traffic systems; present students with typical traffic issues and provide with analytical tools that allow them to critically evaluate solutions.

Course Outcomes
At the end of the course, students should know how to and feel comfortable with: collecting and interpreting traffic data; designing and laying out intersections; analyzing and timing signalized intersections; computing level of service for stop-and yield-controlled intersections; using simulation software to evaluate transportation networks; using trade specific language and methods that relate to traffic engineering.
Communication
Outside of scheduled lectures & office hours, email is the official form of communication. Students are expected to check their UAF email accounts for course updates. In addition, UAF Blackboard will be used for general announcements, distribution of course materials and posting of grades.

Homework and Labs
Homework assignments can be done collaboratively, but it is expected that each student will turn in his/her own copy of the assignment. Blatant copying of another student's work will not be tolerated. Homework solutions will be either posted on Blackboard or discussed during the review sessions. Homework will still be accepted at the beginning of the next scheduled class but will be penalized 50% after which it will no longer be accepted. Homework will also not be accepted if they are not stapled or if the answers are not circled or clearly marked. Labs are due electronically either at the end of the lab period or at the beginning of the next lecture if more time is needed.

Term Projects
Mini-Project 1: Data collection and analysis of gap acceptance.
Mini-Project 2: Data collection and analysis of queues and start-up lost time.
Mini-Project 3: HCM Analysis of a signalized and unsignalized intersection.

Project Scoring Rubric
1. Design and Collection of Original Data 25 pts
2. Illustrates Knowledge of Traffic Concepts 30 pts
3. Utilizes Appropriate Traffic Analysis Software/Techniques 25 pts
4. Clarity and Logic of Report/Presentation 20 pts

Quizzes and Exams
For in-class quizzes and exams, students are responsible for their own writing utensils and calculators. Devices that have communication or computing capabilities (e.g., cell phones, laptops, iPads, etc.) are strictly prohibited. All exams will be open book and open notes; quizzes will be closed book and closed notes. Only writing utensil, calculator, references, scrap paper, and exam will be allowed on the desk during the exam; all other items must be placed on the floor. Students will arrange themselves so there is one empty desk between them and the next student if possible. The final exam will be take home and cover material from the entire semester.

Grading
10% Attendance/Participation
10% Quizzes
20% Homework (6)
30% Projects (3)
30% Exams (3)
A 90-100%
B 80-89%
C 70-79%
D 60-69%
F 0-59%

Attendance
Although class attendance is not mandatory, multiple absences will directly affect the class participation grade as will tardiness. Students who are unable to attend class should, if possible, notify the instructor in advance and plan to make up or obtain the material from fellow classmates. There will be no opportunities to make up missed quizzes. If one is unable to take a test due to an absence, an opportunity to make up for a missed test will be given only under special circumstances. These circumstances include: 1) illness or personal injury, 2) university-related extracurricular activities, and 3) legitimate extenuating circumstances. Illnesses and personal injuries include those suffered by the
student or a student's spouse or children. Non-illness or injury related reasons must be discussed with the instructor in advance of the scheduled test.

**Mobile Devices**

The use of mobile devices in the classroom will be strictly prohibited. If you are using your cell phone or your cell phone goes off during class, you will be asked to leave. The use of laptops for note taking will be permitted. However, if it is clear that you are using it for anything other than course related activities you will be asked to leave and you will be required to obtain class material from a classmate.

**Academic Integrity**

Offenses against the Code of Academic Integrity and Student Code of Conduct are deemed serious and insult the integrity of the entire academic community. Any suspected violations of the code are taken very seriously. Further university policies addressing plagiarism, fabrication, collusion, and cheating can be found on pp. 50-52 in Academics and Regulations. Any student found violating these codes will be given an automatic failing grade for that assignment. More than one violation will result in a failing grade for the course and will involve disciplinary action.

**Disabilities Services**

If you have a formal accommodation plan developed in conjunction with the UAF Center for Health and Counseling office please contact me as soon as possible at the start of the semester. If you would like to learn more about your options, these services, or discuss the supports that you need in order to learn well in this class, please contact the coordinator of Disability Services at 474-5655.

**Support Services**

The UAF Writing Center (located in 801 Gruening) is staffed with English Department teaching assistants and undergraduate students that can assist you in all phases of the writing process. Students are encouraged to take advantage of these services when preparing their project reports. In addition, the UAF Math Lab offers advice, tutoring, and assistance for classes involving mathematics and statistics.
## Tentative Spring 2017 Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THUR</th>
<th>FRI</th>
<th>SAT/SUN</th>
<th>MO</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20 Course Introductions Hand out syllabus</td>
<td>21/22</td>
<td>JAN</td>
</tr>
<tr>
<td>2</td>
<td>23 NO CLASS</td>
<td>24</td>
<td>25 (RPM Chap 2) The Traffic System</td>
<td>26</td>
<td>27 (RPM Chap 3 &amp; 4) Flow Theory pt. 1</td>
<td>28/29</td>
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<tr>
<td>3</td>
<td>30 (RPM Chap 5-7) Flow Theory pt. 2</td>
<td>31</td>
<td>1 (RPM Chap 8) Traffic Studies pt. 1 HW 1 Assigned</td>
<td>2</td>
<td>3 Paper Discussion</td>
<td>4/5</td>
<td>FEB</td>
</tr>
<tr>
<td>4</td>
<td>6 (RPM Chap 9) Traffic Studies pt. 2</td>
<td>7</td>
<td>8 Gap Acceptance Theory Project 1 Assigned</td>
<td>9</td>
<td>10 Stochastic Traffic Theory HW 1 Due*</td>
<td>11/12</td>
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<tr>
<td>5</td>
<td>13 Paper Discussion HW 2 Assigned</td>
<td>14</td>
<td>15 Car Following Theory</td>
<td>16</td>
<td>17 VISSIM Lab 1</td>
<td>18/19</td>
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<tr>
<td>6</td>
<td>20 Queuing Theory HW 2 Due* Lab 1 Due*</td>
<td>21</td>
<td>22 Field Exercise</td>
<td>23</td>
<td>24 (RPM Chap 15) Weaving Section Analysis Project 1 Due* HW 3 Assigned</td>
<td>25/26</td>
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<tr>
<td>7</td>
<td>27 (RPM Chap 15) Merging &amp; Diverging</td>
<td>28</td>
<td>1 EXAM 1</td>
<td>2</td>
<td>3 Paper Discussion HW 3 Due*</td>
<td>4/5</td>
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<tr>
<td>8</td>
<td>6 (RPM Chap 21) Pretimed Signalized Intersections</td>
<td>7</td>
<td>8 VISSIM Lab 2</td>
<td>9</td>
<td>10 Paper Discussion Project 2 Assigned Lab 2 Due*</td>
<td>11/12</td>
<td>MAR</td>
</tr>
<tr>
<td>9</td>
<td>13 (RPM Chap 22) Actuated Signalized Intersections</td>
<td>14</td>
<td>15 (RPM Chap 26) Signal Coordination Unsaturated Lab 4 Due*</td>
<td>16</td>
<td>17 (RPM Chap 27) Signal Coordination Saturated HW 4 Assigned</td>
<td>18/19</td>
<td></td>
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<tr>
<td>10</td>
<td>20 SPRING RECESS</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25/26</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>27 (RPM Chap 23) Critical Movement Analysis</td>
<td>28</td>
<td>29 VISSIM Lab 3 Project 2 Due*</td>
<td>30</td>
<td>31 Paper Discussion HW 4 Due* Lab 3 Due*</td>
<td>1/2</td>
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<tr>
<td>12</td>
<td>3 EXAM 2</td>
<td>4</td>
<td>5 (RPM Chap 24) HCM Analysis pt. 1 HW 5 Assigned</td>
<td>6</td>
<td>7 (RPM Chap 24) HCM Analysis pt. 2 Project 3 Assigned</td>
<td>8/9</td>
<td>APR</td>
</tr>
<tr>
<td>13</td>
<td>10 Field Exercise / Project Work</td>
<td>11</td>
<td>12 VISSIM Lab 4 HW 5 Due*</td>
<td>13</td>
<td>14 Paper Discussion Lab 4 Due*</td>
<td>15/16</td>
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<tr>
<td>14</td>
<td>17 (NCHRP 672) Roundabout Analysis UK &amp;Empirical Methods</td>
<td>18</td>
<td>19 (NCHRP 672) Roundabout Analysis Gap Acceptance</td>
<td>20</td>
<td>21 Field Exercise / Project Work</td>
<td>22/23</td>
<td></td>
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<tr>
<td>15</td>
<td>24 GIS for Traffic Applications Pt. 1 HW 6 Assigned</td>
<td>25</td>
<td>26 GIS Lab 5</td>
<td>27</td>
<td>28 NO CLASS (Springfest)</td>
<td>29/30</td>
<td>MAY</td>
</tr>
<tr>
<td>16</td>
<td>1 Traffic Flow Disturbances Lab 5 Due*</td>
<td>2</td>
<td>3 VISSIM Lab 6 HW 6 Due*</td>
<td>4</td>
<td>5 Paper Discussion Lab 6 Due*</td>
<td>6/7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 Graduate Student Project Presentations Project 3 Due*</td>
<td></td>
<td>Final Exam (Take Home) Due May 12th, 10:00am</td>
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</tbody>
</table>

Notes:  
() Information inside brackets are required readings expected to be completed prior to class on that day  
* All assignments and projects are to be handed in at the beginning of class on the listed date.
CE 606 Traffic Engineering
Tentative Spring 2017 Course Syllabus (updated September 25, 2015)

Instructor
Nathan P. Belz, Ph.D.
Email: npbelz@alaska.edu
Office: 245D Duckering
Phone: 907.474.5765

Lectures
9:15am – 10:15am, MWF, Duckering 352

Office Hours
10:30am – 11:30am, MWF, Duckering 245D
or by appointment via email (time and location TBD)

Catalog Data
CE 606, CRN XXXXX

Course Title
Traffic Engineering

Prerequisites
CE 302 or permission of instructor

Course Description and Topics
Operation and control of transportation systems with emphasis on traffic on highways and streets. Traffic control devices, data collection, capacity and level of service analysis, intersection signalization, traffic impact analysis, accident analysis and other safety considerations.

Credit
3.00 semester hours

Textbook and Readings

NOTE: Earlier editions of this textbook may be available, but differences in the content and assignment of questions may exist. Students are responsible for the material and content in the 2010 edition.

Supplementary readings and notes will be distributed as needed.

Course Objectives
This course is designed to introduce the field of traffic engineering and related disciplines; demonstrate the application of engineering concepts in traffic flow and traffic systems; present students with typical traffic issues and provide with analytical tools that allow them to critically evaluate solutions.

Course Outcomes
At the end of the course, students should know how to and feel comfortable with: collecting and interpreting traffic data; designing and laying out intersections; analyzing and timing signalized intersections; computing level of service for stop-and-yield-controlled intersections; using simulation software to evaluate transportation networks; using trade specific language and methods that relate to traffic engineering.
Communication
Outside of scheduled lectures & office hours, email is the official form of communication. Students are expected to check their UAF email accounts for course updates. In addition, UAF Blackboard will be used for general announcements, distribution of course materials and posting of grades.

Homework and Labs
Homework assignments can be done collaboratively, but it is expected that each student will turn in his/her own copy of the assignment. Blatant copying of another student’s work will not be tolerated. Homework solutions will be either posted on Blackboard or discussed during the review sessions. Homework will still be accepted at the beginning of the next scheduled class but will be penalized 50% after which it will no longer be accepted. Homework will also not be accepted if they are not stapled or if the answers are not circled or clearly marked. Labs are due electronically either at the end of the lab period or at the beginning of the next lecture if more time is needed.

Term Projects
Mini-Project 1: Data collection and analysis of gap acceptance.
Mini-Project 2: Data collection and analysis of queues and start-up lost time.
Project 3a: Project proposal topic to be approved by instructor
Project 3b: Literature review for self-study background
Project 3c: Self-study project; data collection, analysis, report.
(Note: Project 3 will require weekly project reports; final paper should be of publishable quality with the intent of submission at end of or after the semester)

Project Scoring Rubric
1. Design and Collection of Original Data 20 pts
2. Illustrates Knowledge of Advanced Traffic Concepts 25 pts
3. Utilizes Appropriate Traffic Analysis Software/Techniques 25 pts
4. Clarity and Logic of Report/Presentation 15 pts
5. Demonstrates an Ability for High-Quality Academic Writing 15 pts

Quizzes and Exams
For in-class quizzes and exams, students are responsible for their own writing utensils and calculators. Devices that have communication or computing capabilities (e.g., cell phones, laptops, iPads, etc.) are strictly prohibited. All exams will be open book and open notes; quizzes will be closed book and closed notes. Only writing utensil, calculator, references, scrap paper, and exam will be allowed on the desk during the exam; all other items must be placed on the floor. Students will arrange themselves so there is one empty desk between them and the next student if possible. The final exam will be take home and cover material from the entire semester.

Paper Discussion
Graduate students will help prepare and lead discussions on relevant journal papers and topics. This will be accounted for in the attendance/participation portion of their grade.

Grading
10% Attendance/Participation A 90-100%
20% Homework (6) B 80-89%
40% Projects (3) C 70-79%
30% Exams (3) D 60-69%

F 0-59%
Attendance

Although class attendance is not mandatory, multiple absences will directly affect the class participation grade as will tardiness. Students who are unable to attend class should, if possible, notify the instructor in advance and plan to make up or obtain the material from fellow classmates. There will be no opportunities to make up missed quizzes. If one is unable to take a test due to an absence, an opportunity to make up for a missed test will be given only under special circumstances. These circumstances include: 1) illness or personal injury, 2) university-related extracurricular activities, and 3) legitimate extenuating circumstances. Illnesses and personal injuries include those suffered by the student or a student’s spouse or children. Non-illness or injury related reasons must be discussed with the instructor in advance of the scheduled test.

Mobile Devices

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Disabilities Services

If you have a formal accommodation plan developed in conjunction with the UAF Center for Health and Counseling office please contact me as soon as possible at the start of the semester. If you would like to learn more about your options, these services, or discuss the supports that you need in order to learn well in this class, please contact the coordinator of Disability Services at 474-5655.

Support Services

The UAF Writing Center (located in 801 Gruening) is staffed with English Department teaching assistants and undergraduate students that can assist you in all phases of the writing process. Students are encouraged to take advantage of these services when preparing their project reports. In addition, the UAF Math Lab offers advice, tutoring, and assistance for classes involving mathematics and statistics.
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<tr>
<th>WEEK</th>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THUR</th>
<th>FRI</th>
<th>SAT/SUN</th>
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<tr>
<td>1</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20 Course Introductions</td>
<td>21/22</td>
<td>JAN</td>
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<td>Hand out syllabus</td>
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<td>2</td>
<td>23 NO CLASS</td>
<td>24</td>
<td>25 (RPM Chap 2)</td>
<td>The Traffic System</td>
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<td>27 (RPM Chap 3 &amp; 4)</td>
<td>Flow Theory pt. 1</td>
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<td>1 (RPM Chap 8)</td>
<td>Traffic Studies pt. 1 HW 1 Assigned</td>
<td>2</td>
<td>3 Paper Discussion</td>
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<td>4</td>
<td>6 (RPM Chap 9) Traffic Studies pt. 2</td>
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<td>8 Gap Acceptance Theory Project 1 Assigned</td>
<td>9</td>
<td>10 Stochastic Traffic Theory HW 1 Due*</td>
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<td>13 Paper Discussion HW 2 Assigned</td>
<td>14</td>
<td>15 Car Following Theory Proj 3 Proposal</td>
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<td>17 VISSIM Lab 1</td>
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<td>20 Queuing Theory HW 2 Due* Lab 1 Due*</td>
<td>21</td>
<td>22 Field Exercise</td>
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<td>24 (RPM Chap 15) Weaving Section Analysis Project 1 Due* HW 3 Assigned</td>
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<td>27 (RPM Chap 15) Merging &amp; Diverging</td>
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<td>1 EXAM 1</td>
<td>2</td>
<td>3 Paper Discussion HW 3 Due*</td>
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<td>8</td>
<td>6 (RPM Chap 21) Pretimed Signalized Intersections</td>
<td>7</td>
<td>8 VISSIM Lab 2</td>
<td>9</td>
<td>10 Paper Discussion Project 2 Assigned Lab 2 Due*</td>
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<td>9</td>
<td>13 (RPM Chap 22) Actuated Signalized Intersections Proj 3 Lit Review Draft</td>
<td>14</td>
<td>15 (RPM Chap 26) Signal Coordination Unsaturated Lab 4 Due* Proj 3 Revised Prop</td>
<td>16</td>
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<td>27 (RPM Chap 23) Critical Movement Analysis</td>
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<td>29 VISSIM Lab 3 Project 2 Due*</td>
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<td>31 Paper Discussion HW 4 Due* Lab 3 Due*</td>
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<td>3 EXAM 2</td>
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<td>5 (RPM Chap 24) HCM Analysis pt. 1 HW 5 Assigned</td>
<td>6</td>
<td>7 (RPM Chap 24) HCM Analysis pt. 2 Project 3 Assigned</td>
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<td>10 Field Exercise / Project Work</td>
<td>11</td>
<td>12 VISSIM Lab 4 HW 5 Due*</td>
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<td>14 Paper Discussion Lab 4 Due*</td>
<td>15/16</td>
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<td>14</td>
<td>17 (NCHR 672) Roundabout Analysis UK &amp; Empirical Methods</td>
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<td>19 (NCHR 672) Roundabout Analysis Gap Acceptance</td>
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<td>21 Field Exercise / Project Work</td>
<td>22/23</td>
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<td>24 GIS for Traffic Applications Pt. 1 HW 6 Assigned</td>
<td>25</td>
<td>26 GIS Lab 5</td>
<td>27</td>
<td>28 NO CLASS (Springfest)</td>
<td>29/30</td>
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<td>2</td>
<td>3 VISSIM Lab 6 HW 6 Due*</td>
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<td>5 Paper Discussion Lab 6 Due*</td>
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<td>8 Graduate Student Project Presentations Project 3 Final Report Due*</td>
<td>Final Exam (Take Home) Due May 12th, 10:00am</td>
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Notes: () Information inside brackets are required readings expected to be completed prior to class on that day.
* All assignments and projects are to be handed in at the beginning of class on the listed date.