SPRING 2019 : ELEC 3400: COMMUNICATION SYSTEMS
T Th  11:00 am – 12:15 pm  Broun 102

Instructor:  Prof. J.K. Tugnait  313 Broun,  4-1846,  tugnajk@eng.auburn.edu
Office Hours: MW 11:00am – 11:50 am; 3:00 – 4:00 pm;
e-mail for appointment at other times.

Prerequisite:  ELEC 3800.


Reference 1:  B.P. Lathi and Z. Ding, Modern Digital & Analog Communication Systems,


Grading Basis:

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<th>Component</th>
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<tr>
<td>Homework</td>
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<td>Test I</td>
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<td>Test II</td>
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<td>Final</td>
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Test I:  Feb. 28, 2019
Test II: April 11, 2019
Final:  May 3, 2019, Friday 12:00 noon

Attendance Policy:  Class attendance and participation is required. Unexcused absences from
more than 3 class sessions will receive an F in the course. For an absence to be excused, the
student must present an official excuse obtained from the Engineering Student Services Office no
later than 1 week after the absence. For more information, see the Academic regulations in the
Tiger Cub.

Homework:  will be assigned periodically. Solutions to the homework problems will be discussed
in class. Late homework will not be accepted. The lowest homework grade will be dropped
from your average.

TEXT COVERAGE (in listed order)

- Chapter 2 & 5  Background ELEC 2120 and ELEC 3800 material —— READING ASSIGN-
MENT
- Chapter 7  Secs. 7.1-7.6, 7.8, 7.9: Sampling and PCM
- Chapter 8  Baseband digital transmission
- Chapter 9  Digital band-pass transmission techniques (parts)
- Chapters 3 & 4  Amplitude and angle modulation

ELEC 3400. COMMUNICATION SYSTEMS (3). Lec. 3. Pr., ELEC 3800. Pulse code modulation,
line coding, information rate, equalization, amplitude modulation, angle modulation, noise in
communication systems.