

MAYLAND COMMUNITY COLLEGE



ELN 234 95
8-15-07

PO Box 547
or
200 Mayland Drive
Spruce Pine, NC 28777
828-765-7351 or 1-800-462-9526

Attendance Policy/Tardiness/Make-Up Work:

All assignments are due 'on time'. Students will receive a zero for any assignment not emailed in on time. As for a missed exam, a makeup opportunity will not be allowed, except for authorized excuses (such as notes from a doctor or hospital, proof will be required).

Grading Criteria/Tests/Projects:

Tests	40%
Homework	40%
Projects	20%

Grading Scale:

A	=>90
B	=>80 < 90
C	=>70 < 80
D	=>60 < 70
F	<60

Inclement Weather Procedures:

If we experience dangerous weather conditions do not risk your safety to attend class. Any classes that are missed due to weather will be made up, at a time that is satisfactory to all.

Academic Standards/Student Expectations/Ethics:

Do your own work. If you cheat or exhibit unethical behavior; you will be subject to one or more of the following: (1) No credit for the assignment/exam and/or (2) removal from the course. If you wish to contest any assertion of failure to meeting academic standards, you may exercise the due process options listed in the Student Handbook.

Withdrawal Dates:

End of Unconditional Withdrawal: 9-25-07
End of Conditional Withdrawal: 11-1-07

If a student has not been in contact with the instructor and has not attended class for a consecutive two-week period, an administrative withdrawal will be submitted by the instructor.

Any student requesting special accommodations for this course due to a disability should apply for services through the SOAR Office or the Counseling Center, which will document the disability. A counselor will then help determine which accommodations, if any, the student needs for success in this course.

Course Outline/Weekly Topics

Week 1	Communications systems, radio systems, modulation, troubleshooting
Week 2	Signal analysis, domains, waveforms, noise, noise reduction.
Week 3	Amplitude modulation, generation, time & frequency domain analysis
Week 4	Am transmitters, Low and High level, oscillators, amplifiers, modulators
Week 5	AM receivers, detection, TRF and Superheterodyne receivers, EXAM I
Week 6	Single sideband systems, SSB receivers, SSB transceivers
Week 7	Systems for frequency generation, PLL, DDS synthesizers
Week 8	Frequency modulation transmission, modulation
Week 9	FM receivers, detection, decoding, alignment
Week 10	Television, principles, signals, receiver operation, troubleshooting
Week 11	Transmission lines, impedance matching, EXAM II.
Week 12	Antennas and wave propagation, E&M energy, RF safety
Week 13	Microwave communication systems, oscillators, amplifiers
Week 14	Data communications, network topologies, asynchronous DATA And UARTs
Week 15	Satellites, GPS segments and navigation signal processing.
Week 16	Fiber optic and laser technology, propagation modes and dispersion, Light sources, modulation circuits and detectors, Final Exam