

EC4610 Course Information – Summer 2009

Prerequisites: (We will briefly review all of these topics as necessary.)

1. Basic linear systems (Fourier transforms, convolutions, impulse response of networks, etc.)
2. Basic probability and statistics (Gaussian processes)
3. Fundamentals of transmission lines and antennas (EC3600 or EO3602)

Grading:

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| 1. Exams are open book and open notes | |
| midterm | 25 % |
| final | 45 % |
| 2. Homework | 15 % |
| 3. Laboratory reports (1 report per group to be turned in finals week) | 15 % |

Lecture Notes: Content is essentially extracted from *Introduction to Radar Systems* by Merrill Skolnik, 3rd edition, McGraw-Hill. Lecture notes are posted on Blackboard (<https://nps.blackboard.com>).

Homework: Some problems may require programming in a high level language (Matlab, Mathcad, Mathematica, Fortran, etc.)

Laboratory: Small groups with sign up scheduling. **Meet the first week for an introductory session.**