

**POLYTECHNIC UNIVERSITY OF PUERTO RICO**  
**Electrical & Computer Engineering and Computer Science Department**

**MSEE Graduate Program Textbook List**

**04-FA**

| <b>EE Graduate Program Courses</b> |  |                                    |                |                       |               |
|------------------------------------|--|------------------------------------|----------------|-----------------------|---------------|
| <b>Course</b>                      | <b>Textbook</b>  | <b>Author</b>                      | <b>Edition</b> | <b>Publishing Co.</b> | <b>ISBN</b>   |
| EE 5714                            | Modern Digital and Analog Communications Systems         | B.P. Lathi                         | 3rd            | Oxford Univ.          | 0-195-11009-9 |
| EE 5720                            | Introduction to Signal Processing                        | Sophocles J. Orfanidis             | 1st            | Pearson Educ.         | 0-13-209172-0 |
| EE 5730                            | RF Circuit Design: Theory and Applications               | R. Ludwig & P. Bretchko            | 1st            | Prentice Hall         | 0-13-095323-7 |
| EE 6010                            | Math. Methods and Algorithms for Signal Processing       | T.K. Moon/W. Stirling              | 1st            | PrenHall              | 0-201-36186-8 |
| EE 6012                            | Advanced Engineering Mathematics                         | Michael Greenberg                  | 2nd            | PrenHall              | 0-13-321431-1 |
| EE 6020                            | Random Signals: Detection, Estimation, and Data Analysis | K.S. Shamugan/ A.M. Breipol        | 1st            | Wiley and Sons        | 0-471-81555-1 |
| EE 6030                            | Fundamentals of Linear State Space Systems               | John S. Bay                        | 1st            | McGraw-Hill           | 0-256-24639-4 |
| EE 6120                            | Computer Architecture: A Quantitative Approach           | D.A. Petterson/J.L. Hennessy       | 2nd            | Morgan Kaufman        | 1-55860-596-7 |
| EE 6130                            |  |                                    |                |                       |               |
| EE 6150                            | Thinking in Java   | Bruce D. Eckel                     | 3rd            | Prentice Hall         | 0-13-1002872  |
| <b>EE 6510</b>                     | Software Engineering: Theory and Practice                | S.L. Phleeger                      | 2nd            | Prentice Hall         | 0-13-029049-1 |
|                                    | Project-Based Software Engineering                       | E. Stiller/ K. LeBlanc             | 1st            | Addison Wesley        | 0-201-74225X  |
| EE 6720                            | Pattern Classification                                   | Duda, Hart and Stork               | 2nd            | Wiley-Interscience    | 0-471-056693  |
| EE 6750                            | Advanced Engineering Electromagnetics                    | Constantine A. Balanis             | 1st            | Wiley and Sons        | 0-471-62194-3 |
| EE 6754                            | Antenna Theory and Design                                | W.L. Stutzman/ G.A. Thiele         | 2nd            | Wiley and Sons        | 0-471-02590-9 |
| EE 6760                            | Modern Digital and Analog Communications Systems         | B.P. Lathi                         | 3rd            | Oxford Univ.          | 0-195-11009-9 |
| EE 6770                            | Satellite Communications                                 | T. Pratt, C.W. Bostian, J. Allnutt | 2nd            | Wiley and Sons        | 0-471-37007-x |
| EE 7712                            | Digital Image Processing                                 | R. González                        | 2nd            | Addison Wesley        | 0-201-18075-8 |
| EE 7714                            | Methods of Satellite Oceanography                        | R. Stewart                         | 1st            | Univ. of CA Press     | 0-52-0042263  |
| EE 7716                            | Computer Vision  | L. Shappiro / G. Stockman          | 1st            | Pearson Educ.         | 0-13-030796-3 |
| EE 7722                            | Neural Network Design                                    | MT Hagan, HB Demuth, M Beal        |                | Brooks and Cole       | 0-534943322   |
| EE 7730                            | Discrete Time Processing of Speech Signals               | J. R. Deller                       |                | IEEE Press            | 0-78-0353862  |
| EE 7740                            | Fast Transforms: Algorithms, Analyses, Applications      | D. F. Elliot and K.R. Rao          | 1st            | Academic Press        | 0-12-237080-5 |
| EE 7752                            | Advanced Engineering Electromagnetics                    | Constantine A. Balanis             | 1st            | Wiley and Sons        | 0-471-62194-3 |
| EE 7756                            | Antenna Theory and Design                                | W.L. Stutzman/ G.A. Thiele         | 2nd            | Wiley and Sons        | 0-471-02590-9 |
| EE 7772                            | Wireless Communications: Principles and Practice         | Theodore S. Rappaport              | 2nd            | PrenHall              | 0-13-042232-0 |
| EE 7780                            |  |                                    |                |                       |               |
| EE 7782                            |  |                                    |                |                       |               |
| EE 7800                            |  |                                    |                |                       |               |
| EE 7801                            |  |                                    |                |                       |               |