



Radiological
Technologies
University VT

Course Textbook Listing by Program

Table of Contents

MS Medical Physics Program	3
MS Medical Dosimetry Program.....	8
MS Medical Health Physics Program.....	13
BS Medical Dosimetry	19
BS Radiation Therapy Program	23
Continued Education	27

MS Medical Physics Program

Radiation Dosimetry (MP501)

Required Text: Introduction to Radiological Physics and Radiation Dosimetry, 1/e
Frank Herbert Attix
Wiley-Interscience (Sept. 1986)
ISBN-13: 978-0471011460
Retail Price: \$215.71

Recommended text: The Physics of Radiology, 4/e
Harold Elford Johns and John Robert Cunningham
Charles C. Thomas Publisher (Feb. 1983)
ISBN-13: 978-0398046699
Retail Price: \$95.95

Radiation Biology (MP502)

Required Text: Radiobiology for the Radiologist, 6/e
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins (Dec. 1, 2005)
ISBN-13: 978-0781741514
Retail Price: \$34.99
--OR--
Radiobiology for the Radiologist, 7th Ed.
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins
ISBN-13: 978-1608311934
Retail Price: \$127.46

Diagnostic Radiology (MP503)

Required Text: The Essential Physics of Medical Imaging, 3/e
Bushberg, Seibert, Leidholdt Jr., and Boone
Lippincott Williams and Wilkins (Dec. 20, 2011)
ISBN-13: 978-0781780575
Retail Price: \$167.36

Seminars Sessions (MP599)

Required Text: No text required. Materials will be provided as needed.

Medical Dosimetry Lab Sessions (MD689)

Required Text: Leibel and Phillips Textbook of Radiation Oncology, 3/e
R. Hoppe, T. Phillips, M. Roach
Saunders (Sept. 23, 2010)
ISBN-13: 978-1416058977
Retail Price: \$247.75

Treatment Planning in Radiation Oncology, 3/e

Faiz Khan and Bruce Gerbi
Lippincott, Williams and Wilkins (Nov. 11, 2011)
ISBN-13: 978-1608314317
Retail Price: \$209.99

Recommended text: Radiation Therapy Planning, 2/e
Gunilla Bentel
McGraw-Hill Professional (Oct. 1, 1995)
ISBN-13: 978-0070051157
Retail Price: \$88.50

Nuclear Medicine (MP504)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Physics in Nuclear Medicine
Simon R. Cherry, et al.
Saunders (July 18, 2003)
ISBN-13: 978-0721683416
Retail Price: \$88.75

Radiation Oncology I (MP505)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan
Lippincott, Williams, and Wilkins (May 31, 2003)
ISBN-13: 978-0781730655
Retail Price: \$69.55
-- OR --
The Physics of Radiation Therapy, 5th Ed.
Faiz M. Khan
Lippincott, Williams, and Wilkins
ISBN-13: 978-1451182453
Retail price: \$148.20

Recommended Text: The Physics of Radiology, 4/e
Harold Elford Johns and John Robert Cunningham
Charles C. Thomas Publisher (Feb. 1983)
ISBN-13: 978-0398046699
Retail Price: \$95.95

Khan's Lectures: Handbook of the Physics of Radiation Therapy
Lippincott, Williams, and Wilkins (July 5, 2011)
ISBN-13: 978-1605476810
Retail price: \$53.60

Radiation Oncology II (MP506)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan

Lippincott, Williams, and Wilkins (May 31, 2003)

ISBN-13: 978-0781730655

Retail Price: \$69.55

-- OR --

The Physics of Radiation Therapy, 5th Ed.

Faiz M. Khan

Lippincott, Williams, and Wilkins

ISBN-13: 978-1451182453

Retail Price: \$148.20

Recommended Text: Khan's Lectures: Handbook of the Physics of Radiation Therapy
ISBN-13: 978-1605476810
Retail price: \$53.60

Radiological Instrumentation (MP508)

Required Text: Radiation Detection and Measurement, 3/e
Glenn F. Knoll
Wiley (Jan. 5, 2000)
ISBN-13: 978-0471073383
Retail Price: \$165.95

Brachytherapy (MP611)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Brachytherapy: Applications and Techniques, 1/e
Phillip M. Devlin
Lippincott Williams and Wilkins (Oct. 20, 2006)
ISBN-13: 978-0781762779
Retail Price: \$214.99

Mathematical Methods (MATH501)

Required Text: Statistics for Engineering and the Sciences, 5/e
William Mendenhall and Terry Sincich
Prentice Hall (July 23, 2006)
ISBN-13: 978-0131877061
Retail Price: \$310.00

Advanced Mathematical Methods (MATH502)

Required Text: Statistics for Engineering and the Sciences, 5/e
William Mendenhall and Terry Sincich
Prentice Hall (July 23, 2006)
ISBN-13: 978-0131877061
Retail Price: \$310.00

Health Physics and Radiation Safety (MHP510)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Medical Health Physics
Health Physics Society
American Association of Physicists in Medicine (Jan. 1, 2006)
ISBN-13: 978-1930524316
Retail Price: \$75.00

Nuclear Oncology (MP613)

Required Text: No text required. Materials will be provided as needed.

Shielding Design (MHP601)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Shielding Techniques for Radiation Oncology Facilities, 2/e
Patton H. McGinley
Medical Physics Publishing Corp. (Jan. 2002)
ISBN-13: 978-1930524071
Retail Price: \$65.00

Proton Therapy (MP615)

Required Text: Proton and Charged Particle Radiotherapy, 1/e
Thomas F. DeLaney and Hanne M. Kooy
Lippincott, Williams and Wilkins (Sept. 1, 2007)
ISBN-13: 978-0781765527
Retail Price: \$219.99

Computer Systems in Medicine (MP520)

Required Text: No text required. Material will be provided as needed.

Required Software: The student will need to have access to OpenOffice. This is a free Download available from <http://www.openoffice.org>

- Be sure to install at least **Calc**, **Base**, and **Math**
- Most of the assignments with **Calc** could potentially be completed in Microsoft Excel

The student will need to have an environment in which they can use the G95 compiler. The compiler will be installed as part of the coursework. Most Windows computers should work.

Medical & Professional Ethics (MP590)

Required Text: No text required. Materials will be provided as needed.

Advanced Radiation Biology (MP602)

Required Text: Radiobiology for the Radiologist, 6/e

Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins (Dec. 1, 2005)
ISBN-13: 978-0781741514
Retail Price: \$34.99

-OR-

Radiobiology for the Radiologist, 7/e
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins
ISBN-13: 978-1608311934
Retail Price: \$97.60

Advanced Diagnostic Radiology (MP603)

Required Text:

The Essential Physics of Medical Imaging, 3/e
Bushberg, Seibert, Leidholdt Jr., and Boone
Lippincott Williams and Wilkins (Dec. 20, 2011)
ISBN-13: 978-0781780575
Retail Price: \$167.36

MS Medical Dosimetry Program

Radiation Dosimetry (MD501)

Required Text: Introduction to Radiological Physics and Radiation Dosimetry, 1/e
Frank Herbert Attix
Wiley-Interscience (Sept. 1986)
ISBN-13: 978-0471011460
Retail Price: \$215.71

Recommended text: The Physics of Radiology, 4/e
Harold Elford Johns and John Robert Cunningham
Charles C. Thomas Publisher (Feb. 1983)
ISBN-13: 978-0398046699
Retail Price: \$95.95

Radiation Biology (MD502)

Required Text: Radiobiology for the Radiologist, 6/e
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins (Dec. 1, 2005)
ISBN-13: 978-0781741514
Retail Price: \$34.99

Diagnostic Radiology (MD503)

Required Text: The Essential Physics of Medical Imaging, 3/e
Bushberg, Seibert, Leidholdt Jr., and Boone
Lippincott Williams and Wilkins (Dec. 20, 2011)
ISBN-13: 978-0781780575
Retail Price: \$167.36

Seminars Sessions (MP599)

Required Text: No text required. Materials provided as needed.

Clinical Treatment Planning I-IV (MD588, MD590, MD688, MD690)

Required Text: Leibel and Phillips Textbook of Radiation Oncology, 3/e
R. Hoppe, T. Phillips, M. Roach
Saunders (Sept. 23, 2010)
ISBN-13: 978-1416058977
Retail Price: \$247.75

Treatment Planning in Radiation Oncology, 3/e
Faiz Khan and Bruce Gerbi
Lippincott, Williams and Wilkins (Nov. 11, 2011)
ISBN-13: 978-1608314317
Retail Price: \$209.99

-OR-

Treatment Planning in Radiation Oncology, 4th Ed.
Faiz Khan and Paul Sperduto

Lippincott, Williams and Wilkins
ISBN-13: 978-1469889979
Retail Price: \$119.86

Leibel and Phillips Textbook of Radiation Oncology 3rded.
Theodore Phillips, Richard Hoppe, Mack Roach III
Elsevier, Saunders (2010)
ISBN-13: 978-1-4160-5897-7
Retail price: \$284.95

Recommended text:

Radiation Therapy Planning, 2/e
Gunilla Bentel
McGraw-Hill Professional (Oct. 1, 1995)
ISBN-13: 978-0070051157
Retail Price: \$102.05

Perez and Brady's Principles and Practice of Radiation Oncology, 6th Ed.
Halperin, E., Brady, L., Perez, C., and Wazer, D.
LWW (2013)
ISBN-13: 978-1451116489
Retail Price: \$181.30

CT Anatomy for Radiotherapy, 1st Ed.
Pete Bridge
M&K Update (2011)
ISBN-13: 978-1905539543
Retail Price: \$98.12

Additional Recommended Resources:

Pocket Atlas of Sectional Anatomy from Torsten Moeller & Emil Reif

Vol. I
ISBN-13: 978-3131255044
-OR-
ISBN-10: 3131255048
Retail Price: \$51.28

Vol. II
-OR-
ISBN-13: 978-3131256041
ISBN-10: 3131256044
Retail Price: \$42.50

Vol. III
ISBN-13: 978-3131431721
-OR-
ISBN-10: 3131431725
Retail Price: \$47.21

Nuclear Medicine (MD504)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Physics in Nuclear Medicine
Simon R. Cherry, et al.
Saunders (July 18, 2003)
ISBN-13: 978-0721683416
Retail Price: \$88.75

Radiation Oncology I (MD505)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan
Lippincott, Williams, and Wilkins (May 31, 2003)
ISBN-13: 978-0781730655
Retail Price: \$69.55
-OR-
The Physics of Radiation Therapy, 5th Ed.
Faiz M. Khan
Lippincott, Williams, and Wilkins
ISBN-13: 978-1451182453
Retail price: \$148.20

Recommended text: The Physics of Radiology, 4/e
Harold Elford Johns and John Robert Cunningham
Charles C. Thomas Publisher (Feb. 1983)
ISBN-13: 978-0398046699
Retail Price: \$95.95

Khan's Lectures: Handbook of the Physics of Radiation Therapy
Lippincott, Williams, and Wilkins (July 5, 2011)
ISBN-13: 978-1605476810
Retail Price: \$53.85

Radiation Oncology II (MD506)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan
Lippincott, Williams, and Wilkins (May 31, 2003)
ISBN-13: 978-0781730655
Retail Price: \$69.55
-OR-
The Physics of Radiation Therapy, 5th Ed.
Faiz M. Khan
Lippincott, Williams, and Wilkins
ISBN-13: 978-1451182453
Retail Price: \$148.20

Recommended Text: Khan's Lectures: Handbook of the Physics of Radiation Therapy
ISBN-13: 978-1605476810

Retail Price: \$53.85

Brachytherapy (MD611)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Brachytherapy: Applications and Techniques, 1/e
Phillip M. Devlin
Lippincott Williams and Wilkins (Oct. 20, 2006)
ISBN-13: 978-0781762779
Retail Price: \$214.99

Mathematical Methods (MATH501)

Required Text: Statistics for Engineering and the Sciences, 5/e
William Mendenhall and Terry Sincich
Prentice Hall (July 23, 2006)
ISBN-13: 978-0131877061
Retail Price: \$310.00

Health Physics and Radiation Safety (MHP510)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Medical Health Physics
Health Physics Society
American Association of Physicists in Medicine (Jan. 1, 2006)
ISBN-13: 978-1930524316
Retail Price: \$75.00

Nuclear Oncology (MP613)

Required Text: No text required. Materials will be provided as needed.

Proton Therapy (MD615)

Required Text: Proton and Charged Particle Radiotherapy, 1/e
Thomas F. DeLaney and Hanne M. Kooy
Lippincott, Williams and Wilkins (Sept. 1, 2007)
ISBN-13: 978-0781765527
Retail Price: \$219.99

Computer Systems in Medicine (MP520)

Required Text: No text required. Material will be provided as needed.

Required Software: The student will need to have access to OpenOffice. This is a free Download available from <http://www.openoffice.org>

- Be sure to install at least **Calc**, **Base**, and **Math**
- Most of the assignments with **Calc** could potentially be completed in Microsoft Excel

The student will need to have an environment in which they can use the G95 compiler. The compiler will be installed as part of the coursework. Most Windows computers should work.

Medical & Professional Ethics (MP590)

Required Text: No text required. Materials will be provided as needed.

Radiation Oncology Financials (MHP609)

Required Text: No text required. Materials will be provided as needed.

Radiation Oncology Department Management (MHP607)

Required Text: No text required. Materials will be provided as needed.

MS Medical Health Physics Program

Radiation Dosimetry (MP501)

Required Text: Introduction to Radiological Physics and Radiation Dosimetry, 1/e
Frank Herbert Attix
Wiley-Interscience (Sept. 1986)
ISBN-13: 978-0471011460
Retail Price: \$215.71

Recommended text: The Physics of Radiology, 4/e
Harold Elford Johns and John Robert Cunningham
Charles C. Thomas Publisher (Feb. 1983)
ISBN-13: 978-0398046699
Retail Price: \$95.95

Radiation Biology (MP502)

Required Text: Radiobiology for the Radiologist, 6/e
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins (Dec. 1, 2005)
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-OR-
Radiobiology for the Radiologist, 7th Ed.
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins
ISBN-13: 978-1608311934
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ISBN-13: 978-0781780575
Retail Price: \$167.36

Seminars Sessions (MP599)

Required Text: No text required. Materials provided as needed.

Medical Dosimetry Lab Sessions (MD689)

Required Text: Leibel and Phillips Textbook of Radiation Oncology, 3/e
R. Hoppe, T. Phillips, M. Roach
Saunders (Sept. 23, 2010)
ISBN-13: 978-1416058977
Retail Price: \$247.75

Treatment Planning in Radiation Oncology, 3/e
Faiz Khan and Bruce Gerbi
Lippincott, Williams and Wilkins (Nov. 11, 2011)
ISBN-13: 978-1608314317
Retail Price: \$209.99

-OR-

Treatment Planning in Radiation Oncology, 4th Ed.
Faiz Khan and Paul Sperduto
Lippincott, Williams and Wilkins
ISBN-13: 978-1469889979
Retail Price: \$119.86

Leibel and Phillips Textbook of Radiation Oncology 3rded.
Theodore Phillips, Richard Hoppe, Mack Roach III
Elsevier, Saunders (2010)
ISBN-13: 978-1-4160-5897-7
Retail price: \$284.95

Recommended text: Radiation Therapy Planning, 2/e
Gunilla Bentel
McGraw-Hill Professional (Oct. 1, 1995)
ISBN-13: 978-0070051157
Retail Price: \$102.05

Perez and Brady's Principles and Practice of Radiation Oncology, 6th Ed.
Halperin, E., Brady, L., Perez, C., and Wazer, D.
LWW (2013)
ISBN-13: 978-1451116489
Retail Price: \$181.30

CT Anatomy for Radiotherapy, 1st Ed.
Pete Bridge
M&K Update (2011)
ISBN-13: 978-1905539543
Retail Price: \$98.12

Additional Recommended Resources:

Pocket Atlas of Sectional Anatomy from Torsten Moeller & Emil Reif

Vol. I
ISBN-13: 978-3131255044

-OR-

ISBN-10: 3131255048
Retail Price: \$51.28

Vol. II
-OR-
ISBN-13: 978-3131256041
ISBN-10: 3131256044
Retail Price: \$42.50

Vol. III
ISBN-13: 978-3131431721
-OR-
ISBN-10: 3131431725
Retail Price: \$47.21

Nuclear Medicine (MP504)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Physics in Nuclear Medicine
Simon R. Cherry, et al.
Saunders (July 18, 2003)
ISBN-13: 978-0721683416
Retail Price: \$88.75

Radiation Oncology I (MP505)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan
Lippincott, Williams, and Wilkins (May 31, 2003)
ISBN-13: 978-0781730655
Retail Price: \$69.55
-OR-
The Physics of Radiation Therapy, 5th Ed.
Faiz M. Khan
Lippincott, Williams, and Wilkins
ISBN-13: 978-1451182453
Retail Price: \$148.20

Recommended text: The Physics of Radiology, 4/e
Harold Elford Johns and John Robert Cunningham
Charles C. Thomas Publisher (Feb. 1983)
ISBN-13: 978-0398046699
Retail Price: \$95.95

Khan's Lectures: Handbook of the Physics of Radiation Therapy
Lippincott, Williams, and Wilkins (July 5, 2011)
ISBN-13: 978-1605476810
Retail Price: \$53.86

Radiological Instrumentation (MP508)

Required Text: Radiation Detection and Measurement, 3/e

Glenn F. Knoll
Wiley (Jan. 5, 2000)
ISBN-13: 978-0471073383
Retail Price: \$165.95

Brachytherapy (MP611)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Brachytherapy: Applications and Techniques, 1/e
Phillip M. Devlin
Lippincott Williams and Wilkins (Oct. 20, 2006)
ISBN-13: 978-0781762779
Retail Price: \$214.99

Mathematical Methods (MATH501)

Required Text: Statistics for Engineering and the Sciences, 5/e
William Mendenhall and Terry Sincich
Prentice Hall (July 23, 2006)
ISBN-13: 978-0131877061
Retail Price: \$310.00

Advanced Mathematical Methods (MATH502)

Required Text: Statistics for Engineering and the Sciences, 5/e
William Mendenhall and Terry Sincich
Prentice Hall (July 23, 2006)
ISBN-13: 978-0131877061
Retail Price: \$310.00

Health Physics and Radiation Safety (MHP510)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Medical Health Physics
Health Physics Society
American Association of Physicists in Medicine (Jan. 1, 2006)
ISBN-13: 978-1930524316
Retail Price: \$75.00

Nuclear Oncology (MP613)

Required Text: No text required. Materials will be provided as needed.

Shielding Design (MHP601)

Required Text: No text required. Materials will be provided as needed.

Recommended Text: Shielding Techniques for Radiation Oncology Facilities, 2/e
Patton H. McGinley

Medical Physics Publishing Corp. (Jan. 2002)
ISBN-13: 978-1930524071
Retail Price: \$65.00

Proton Therapy (MP615)

Required Text: Proton and Charged Particle Radiotherapy, 1/e
Thomas F. DeLaney and Hanne M. Kooy
Lippincott, Williams and Wilkins (Sept. 1, 2007)
ISBN-13: 978-0781765527
Retail Price: \$219.99

Computer Systems in Medicine (MP520)

Required Text: No text required. Material will be provided as needed.

Required Software: The student will need to have access to OpenOffice. This is a free Download available from <http://www.openoffice.org>

- Be sure to install at least **Calc, Base, and Math**
- Most of the assignments with **Calc** could potentially be completed in Microsoft Excel

The student will need to have an environment in which they can use the G95 compiler. The compiler will be installed as part of the coursework. Most Windows computers should work.

Medical & Professional Ethics (MP590)

Required Text: No text required. Materials will be provided as needed.

Advanced Radiation Biology (MP602)

Required Text: Radiobiology for the Radiologist, 6/e
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins (Dec. 1, 2005)
ISBN-13: 978-0781741514
Retail Price: \$34.99
-OR-
Radiobiology for the Radiologist, 7/e
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins
ISBN-13: 978-1608311934
Retail Price: \$97.60

Reactor Health Physics (MHP602)

Required Text: Introduction to Nuclear Reactor Physics, 1/e
Masterson
ISBN-13: 978-1498751483
Retail Price: \$179.93

Non-Ionizing Radiation Safety (MHP603)

Required Text: Public Health and Safety at Work: Non-Ionizing Radiation-Sources,
Exposure and Health Effects
European Commission (May,1996)
ISBN-13: 978-9282754924
Retail Price: \$16.08

Required Text: Non-Ionizing Radiation Protection, 1/e
Andrew Wood and Colin Roy
Wiley (September, 2016)
ISBN-13: 978-0471446811
Retail Price: \$125.00

Regulations and Licensing (MHP605)

Required Text: No text required. Materials will be provided as needed.
Materials will be provided as necessary such as 10 CFR part 20 and 10 CFR
part 35

Environmental Health Physics (MHP606)

Required Text: Basic Environmental Health, 1st Ed.
Yassi, A., Kjellstroem, T., de Kok, T., and Guidotti, T.
Oxford University Press (2001)
ISBN-13: 978-0195135589
Retail Price: \$66.42

BS Medical Dosimetry

Radiation Dosimetry (MD301)

Required Text Principles and Practice of Radiation Therapy, 3/e
Charles M. Washington and Dennis Leaver
Mosby (Feb. 16, 2009)
ISBN-13: 978-0323053624
Retail Price: \$185.82
-OR-
Principles and Practice of Radiation Therapy, 4th Ed.
Charles M. Washington and Dennis T. Leaver
Mosby-Elsevier
ISBN-13: 978-0323287524
Retail Price: \$170.50

Introduction to Radiation Therapy Planning (MD205)

Required Text Radiation Therapy Planning, 2/e
Gunilla Bentel
McGraw Hill Professional (1996)
ISBN-13: 978-0070051157
Retail Price: \$88.50

Introduction to Imaging (MD303)

Required Text The Essential Physics of Medical Imaging, 3/e
Jerrold Bushberg, et al.
Lippincott, Williams, and Wilkins (2011)
ISBN-13: 978-0781780575
Retail Price: \$150.77

Radiation Biology (MD302)

Required Text: Radiobiology for the Radiologist, 6/e
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins (Dec. 1, 2005)
ISBN-13: 978-0781741514
Retail Price: \$34.99
-OR-
Radiobiology for the Radiologist, 7th Ed.
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins
ISBN-13: 978-1608311934
Retail Price: \$127.46

Radiation Therapy I (MD305)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan
Lippincott, Williams and Wilkins (Dec. 15, 2001)
ISBN-13: 978-0781730655

Retail Price: \$69.55
-OR-
The Physics of Radiation Therapy, 5th Ed.
Faiz M. Khan
Lippincott, Williams, and Wilkins
ISBN-13: 978-1451182453
Retail Price: \$148.20

Radiation Therapy II (MD306)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan
Lippincott, Williams and Wilkins (Dec. 15, 2001)
ISBN-13: 978-0781730655
Retail Price: \$69.55
-OR-
The Physics of Radiation Therapy, 5th Ed.
Faiz M. Khan
Lippincott, Williams, and Wilkins
ISBN-13: 978-1451182453
Retail Price: \$148.20

Health Physics and Radiation Safety (MHP308)

Required Text: Medical Health Physics
Health Physics Society
American Association of Physicists in Medicine (Jan. 1, 2006)
ISBN-13: 978-1930524316
Retail Price: \$75.00

Brachytherapy (MD304)

Required Text: No text required. Materials will be provided as needed.

Introduction to Medical Physics (MD351)

Required Text: No text required. Materials will be provided as needed.

Treatment Planning I - IV (MD310, MD311, MD410, MD411)

Required Text: Leibel and Phillips Textbook of Radiation Oncology, 3/e
R. Hoppe, T. Phillips, M. Roach
Saunders (Sept. 23, 2010)
ISBN-13: 978-1416058977
Retail Price: \$247.75

Treatment Planning in Radiation Oncology, 3/e
Faiz Khan and Bruce Gerbi
Lippincott, Williams and Wilkins (Nov. 11, 2011)
ISBN-13: 978-1608314317
Retail Price: \$209.99

-OR-

Treatment Planning in Radiation Oncology, 4th Ed.
Faiz Khan and Paul Sperduto
Lippincott, Williams and Wilkins
ISBN-13: 978-1469889979
Retail Price: \$119.86

Recommended: Perez and Brady's Principles and Practice of Radiation Oncology, 6th Ed.
Halperin, E., Brady, L., Perez, C., and Wazer, D.
LWW (2013)
ISBN-13: 978-1451116489
Retail Price: \$181.30

Clinical Rotation I - IV (MD320, MD321, MD420, MD421)

Required Text: Leibel and Phillips Textbook of Radiation Oncology, 3/e
R. Hoppe, T. Phillips, M. Roach
Saunders (Sept. 23, 2010)
ISBN-13: 978-1416058977
Retail Price: \$247.75

Treatment Planning in Radiation Oncology, 3/e
Faiz Khan and Bruce Gerbi
Lippincott, Williams and Wilkins (Nov. 11, 2011)
ISBN-13: 978-1608314317
Retail Price: \$209.99

-- OR --

Treatment Planning in Radiation Oncology, 4th Ed.
Faiz Khan and Paul Sperduto
Lippincott, Williams and Wilkins
ISBN-13: 978-1469889979
Retail Price: \$119.86

Recommended: Perez and Brady's Principles and Practice of Radiation Oncology, 6th Ed.
Halperin, E., Brady, L., Perez, C., and Wazer, D.
LWW (2013)
ISBN-13: 978-1451116489
Retail Price: \$181.30

CT Anatomy for Radiotherapy, 1st Ed.
Pete Bridge
M&K Update (2011)
ISBN-13: 978-1905539543
Retail Price: \$98.11

Imaging Anatomy (MD352)

Required Text: Sectional Anatomy for Imaging Professionals, 3/e
Lorrie L. Kelly and Connie M. Petersen
Elsevier Mosby (2013)

ISBN-13: 978-0323082600
Retail Price: \$116.00

Recommended Text:

CT and MRI of the Whole Body, 5th ed.
Haaga, John, et al.
Elsevier Mosby (2009)
ISBN-13: 978-0323053754
Retail price: \$301.59

Recommended Atlases:

Neuroanatomy: An Atlas of Structures, Sections, and Systems, 7/e
Duane E. Haines
Lippincott, Williams, and Wilkins (2008)
ISBN-13: 978-0781763288
Retail Price: \$88.00

Imaging Atlas of Human Anatomy, 4/e
Weir J., Abrahams P., Spratt J., and Salkowski L.
Elsevier Mosby (2011)
ISBN-13: 978-0723434573
Retail Price: \$62.36

BS Radiation Therapy Program

Orientation for Radiological Sciences

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Clinical Oncology I (RTT301)

Required Text: Principles and Practice of Radiation Therapy, 3/e
Charles M Washington and Dennis T Leaver
Mosby-Elsevier (2009)
ISBN: 978-0323053624
Retail Price: \$223.00

Radiation Biology (MD302/RTT302)

Required Text: Radiobiology for the Radiologist, 6/e
Eric hall and Amato Giaccia
Lippincott, Williams, and Wilkins (Dec. 1, 2005)
ISBN-13: 978-0781741514
Retail Price: \$34.99
--OR--
Radiobiology for the Radiologist, 7th Ed.
Eric Hall and Amato Giaccia
Lippincott, Williams and Wilkins
ISBN-13: 978-1608311934
Retail Price: \$127.46

Radiation Therapy Technical I (RTT303)

Required Text: Principles and Practice of Radiation Therapy, 3/e
Charles M Washington and Dennis T Leaver
Mosby-Elsevier (2009)
ISBN: 978-0323053624
Retail Price: \$223.00

Portal Design in Radiation Therapy 2/e
Byron G Dash, Anne Marie Van
DWV Enterprises (Aug. 1, 2006)
ISBN: 978-0964271517
Retail Price: \$95.00

Radiation Therapy I (MD305/RTT305)

Required Text: The Physics of Radiation Therapy, 3/e
Faiz M. Khan
Lippincott, Williams, and Wilkins (May 31, 2003)
ISBN-13: 978-0781730655
Retail Price: \$69.55
-- OR --
The Physics of Radiation Therapy, 5th Ed.
Faiz M. Khan
Lippincott, Williams, and Wilkins
ISBN-13: 978-1451182453
Retail Price: \$148.20

Principles/Practice of Radiation Therapy RTT306)

Required Text: Principles and Practice of Radiation Therapy, 3/e
Charles M Washington and Dennis T Leaver
Mosby-Elsevier (2009)
ISBN: 978-0323053624
Retail Price: \$223.00

Radiation Therapy Department Management (RTT430)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Clinical Oncology II (RTT311)

Required Text: Principles and Practice of Radiation Therapy, 3/e
Charles M Washington and Dennis T Leaver
Mosby-Elsevier (2009)
ISBN: 978-0323053624
Retail Price: \$223.00

Physics of Radiation Therapy II (RTT315)

Required Text: The Physics of Radiation Therapy 4/e
Faiz M Khan
Lippincott Williams & Wilkins (2010)
ISBN: 978-0781788564
Retail Price: \$231.14

Clinical Rotation I (RTT320)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Clinical Rotation II (RTT321)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Introduction to Medical Physics (RTT351)

Required Text: No text required. AAPM Task Group Reports and other reading as assigned by the Instructor

Dosimetry/Treatment Planning I (RTT410)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Dosimetry/Treatment Planning II (RTT412)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

QA and Radiation Safety (RTT414)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Clinical Rotation III (RTT420)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Clinical Rotation IV (RTT421)

Required Text: No text required. Materials will be found in research papers, books, and internet resources

Capstone/Comprehensive Review (RTT490)

Required Text: There is no required textbook. The student will be expected to utilize library and Internet sources to complete assignments. Additionally, the instructor will distribute coursework material as appropriate for this course.

Human Anatomy and Physiology (BIOL301)

Recommended Text: Human Anatomy & Physiology 9/e
Elaine N Marieb, Katja N Hoehn
Pearson (Jan 2012)
ISBN: 978-0321743268
Retail Price: \$49.16
(Course content is developed from this text)

Anatomy & Physiology 8/e
Kevin T Patton PhD, Gary A Thibodeau PhD
Mosby (Apr. 2012)
ISBN: 978-0323083577
Retail Price: \$40.00

Imaging and Sectional Anatomy (BIOL352)

Required Text: Sectional Anatomy for Imaging Professionals 3/e
Lorrie L Kelley MS RT, Connie Petersen MS RT
Elsevier Mosby (May 2012)
ISBN: 978-0323082600
Retail Price: \$104.41

Recommended Text: CT and MRI of the Whole Body 5/e
John R. Haaga, et al.
Elsevier Mosby (Dec. 2008)
ISBN: 978-0323053754
Retail Price: \$419.00

Recommended Atlases: Neuroanatomy: An Atlas of Structures, Sections, and Systems, 7th ed.
Duane E. Haines
Lippincott, Williams, and Wilkins (2008)
ISBN-13: 978-0781763288
Retail Price: \$55.10

Imaging Atlas of Human Anatomy, 4th ed.
Weir J., Abrahams P., Spratt J., and Salkowski L.
Elsevier Mosby (2011)
ISBN-13: 978-0723434573
Retail Price: \$51.99

Sectional and MRI Anatomy of the Human Body: A Photographic Atlas
Marinkovic S., Schellinger D., Milisavljevic M., and Antunovic V.
Cic Edizioni Internazionali (2000)
ASIN: B01JXSE6XQ
Retail Price: \$859.83

Introduction to Cancer Care and Nanomedicine (SCI300)

Required Text: No text required.

Medical and Professional Ethics/Patient Care (SCI390)

Required Texts: Introduction to Radiologic Sciences and Patient Care 5/e
Arlene Adler, Richard Carlton
Saunders (Feb. 2011)
ISBN: 978-1437716467
Retail Price: \$11.00

Law and Ethics in Diagnostic Imaging and Therapeutic Radiology RTT320 1/e
Ann M Obergfell
Saunders (Jan. 1995)
ISBN: 978-0721650623
Retail Price: \$34.16

Continued Education

General Physics I (PHY201)

Required Text

Classical Physics I: Mechanics and Thermodynamics

Carl Helrich, Ph.D.

Price: The text is available in PDF format from RTU for \$40.00

General Physics II (PHY202)

Required Text

General Physics II: Electricity, Magnetism, and Circuits

Carl Helrich, Ph.D.

Price: The text is available in PDF format from RTU for \$40.00

Modern Physics (PHY301)

Required Text

Modern Physics; 4/e

Paul A. Tipler and Ralph A. Llewellyn

W.H. Freeman (December 3, 2002)

ISBN-13: 978-0716743453

Retail Price: \$128.25

Electricity & Magnetism (PHY401)

Required Text

The Classical Theory of Fields: Electromagnetism

Carl S. Helrich, Ph.D.

Springer-Verlag Berlin Heidelberg

ISBN-13: 978-3642232046

Retail Price: \$80.78

Fundamentals of Nuclear Physics (PHY403)

Required Text

Introductory Nuclear Physics, 3/e

K. Krane

Wiley (Oct. 22, 1987)

ISBN-13: 978-0471805533

Retail Price: \$174.04

Thermodynamics (PHY405)

Required Text

Modern Thermodynamics with Statistical Mechanics

Carl Helrich, Ph.D.

Spring (Nov. 19, 2010)

ISBN-13: 978-3642099090

Retail Price: \$99.00

Calculus I (MATH201)

Required Text

Calculus, 9th Ed.

Ron Larson and Bruce Edwards

Brooks Cole (Jan. 16, 2009)

ISBN-13: 978-0547167022

Retail Price: \$297.32

Recommended Text:

Introduction to real analysis
William F. Trench
Library of Congress Cataloging-in-Publication Data
Free Edition 1.01, October 2009
ISBN: 0-13-045786-8
Retail Price; \$38.61

Calculus II (MATH202)

Required Text

Calculus, 9th Ed.
Ron Larson and Bruce Edwards
Brooks Cole (Jan. 16, 2009)
ISBN-13: 978-0547167022
Retail Price: \$297.32

Recommended Text:

Introduction to Real Analysis
William F. Trench
Library of Congress Cataloging-in-Publication Data
Free Edition 1.01, October 2009
ISBN-13: 978-0130457868
Retail price: \$38.61

Human Anatomy & Physiology (BIOL301)

Required Text

Anatomy & Physiology, 8th Ed.
K. Patton and G. Thibodeau
Mosby (April 10, 2012)
ISBN-13: 978-0323083577
Retail Price: \$144.00

Recommended Text

Human Anatomy & Physiology, 9th Ed.
E. Marieb and K. Hoehn
Benjamin Cummings (January 16, 2012)
ISBN-13: 978-0321743268
Retail Price: \$217.88

Applied Mathematics (MATH190)

Required Text

College Algebra, 3rd Corrected Ed.
Carl Stitz and Jeff Zeager
ASIN: B013O1SS1Y
Retail Price: \$5.99

College Trigonometry, 3rd Corrected Ed.
Carl Stitz and Jeff Zeager
ASIN: B0155QD6EU
Retail Price: \$20.30

Master Math: Precalculus and Geometry

Debra Ross

Career Press (1996)

ISBN-13: 978-1564142184

Retail Price: \$3.50