



Radiological
Technologies
University VT

Course Textbook Listing by Program

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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

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: *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

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 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

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 (MATH401)

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 (MATH402)

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: *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: *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: No text required. Materials will be provided as needed.

Recommended 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

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

Medical Dosimetry Program

Radiation Dosimetry (MD501)

Required Text: *Introduction to Radiological Physics and Radiation Dosimetry, 1/e*
Frank Herbert Attix
Wiley-Interscience (Sept. 1986)
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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*
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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
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ISBN-13: 978-1608314317
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Gunilla Bentel
McGraw-Hill Professional (Oct. 1, 1995)
ISBN-13: 978-0070051157
Retail Price: \$88.50

Nuclear Medicine (MD504)

Required 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

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 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

Brachytherapy (MD611)

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

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Mathematical Methods (MATH401)

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William Mendenhall and Terry Sincich
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ISBN-13: 978-0131877061
Retail Price: \$310.00

Health Physics and Radiation Safety (MHP510)

Required Text: *Medical Health Physics*
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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
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Retail Price: \$219.99

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

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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.

Medical Health Physics Program

Radiation Dosimetry (MP501)

Required Text: *Introduction to Radiological Physics and Radiation Dosimetry*, 1/e
Frank Herbert Attix
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Retail Price: \$215.71

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Seminars Sessions (MP599)

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

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R. Hoppe, T. Phillips, M. Roach
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Faiz Khan and Bruce Gerbi
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Recommended text: *Radiation Therapy Planning*, 2/e
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ISBN-13: 978-0070051157
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Retail Price: \$95.95

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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*
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Lippincott Williams and Wilkins (Oct. 20, 2006)
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ISBN-13: 978-0131877061
Retail Price: \$310.00

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Medical Physics Publishing Corp. (Jan. 2002)
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Medical & Professional Ethics (MP590)

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

Advanced Radiation Biology (MP602)

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

Recommended 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

Reactor Health Physics (MHP602)

Required Text: *Contemporary Health Physics: Problems and Solutions, 2/e*
Joseph J. Bevelacqua
Wiley-VCH (April 13, 2009)
ISBN-13: 978-3527408245
Retail Price: \$207.00

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.

Environmental Health Physics (MHP606)

Required Text: *Contemporary Health Physics: Problems and Solutions, 2/e*
Joseph J. Bevelacqua
Wiley-VCH (April 13, 2009)
ISBN-13: 978-3527408245
Retail Price: \$207.00

AS to 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

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, 2/e*
Jerrold Bushberg, et al.
Lippincott, Williams, and Wilkins (Dec. 15, 2001)
ISBN-13: 978-0683301182
Retail Price: \$145.00

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

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

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

Health Physics and Radiation Safety (MHP510)

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.

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

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

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: *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

Sectional and MRI Anatomy of the Human Body: A Photographic Atlas

Marinkovic S., Schellinger D., Milisavljevic M., and Antunovic V.

Cic Edizioni Internazionali (2000)

ISBN-13: 978-0865778993

Retail Price: \$1,045.63

Nanomedicine 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

Diagnostic Radiology (MP503)

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ISBN-13: 978-0781780575
Retail Price: \$167.36

Medical Dosimetry Lab Sessions (MD689)

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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

Nanotechnology I (NM540)

Required Text: *Nanotechnology. Understanding Small Systems.* 2nd Ed.
Ben Roger, Sumita Pennathur, Jesse Adams
CRC Press (July 5, 2011)
ISBN-13: 978-1439849200
Retail Price: \$102.24

Nanotechnology II (NM541)

Required Text: *Nanotechnology. Understanding Small Systems.* 2nd Ed.
Ben Roger, Sumita Pennathur, Jesse Adams
CRC Press (July 5, 2011)
ISBN-13: 978-1439849200
Retail Price: \$102.24

Recommended Software: Maple 18 (or any version)
<https://www.maplesoft.com/products/maple/pricing> (Select the **Students Tab**)
Single-user license: \$99.00
Single-user, 12 month license: \$79.00

Nanomedicine I (NM550)

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

Nanomedicine II (NM551)

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

Nanomedicine Seminar I (NM598)

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

Required Software: Maple 18 (or any version)
<https://www.maplesoft.com/products/maple/pricing> (Select the **Students Tab**)
Single-user license: \$99.00
Single-user, 12 month license: \$79.00

Nanomedicine Seminar II (NM599)

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

Research/Design Sequence in Cancer Nanomedicine (NM560)

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

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

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 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

Radiological Instrumentation (MP508)

Required Text: *Radiation Detection and Measurement, 3/e*
Glenn F. Knoll
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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

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Required Text: *Medical Health Physics*
Health Physics Society
American Association of Physicists in Medicine (Jan. 1, 2006)
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Lippincott Williams and Wilkins (Dec. 20, 2011)
ISBN-13: 978-0781780575
Retail Price: \$167.36

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

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