

UNIVERSITY OF THE WEST INDIES
DEPARTMENT OF CHEMISTRY
TEXTBOOKS FOR PART II COURSES

REQ = Required; REC = Recommended; REF = Reference; OR = Online Resources

COURSE	TYPE	TEXTBOOKS
CHEM2010 CHEM2011	REQ	- Skoog, West, Holler & Crouch, Fundamentals of Analytical Chemistry, Brooks Cole
	REC	- Harris, Quantitative Chemical Analysis, Freeman. - Miller & Miller, Statistics & Chemometrics for Analytical Chemistry, Pearson. - Harvey, http://www.asdlib.org/onlinearticles/ecourseware/Analytical%20Chemistry%202.0/TextFiles.html
	REF	- Jeffery, Bassett, Mendham & Denney, Vogel's Textbook of Quantitative Chemical Analysis, Longman - Skoog, Holler & Crouch, Principles of Instrumental Analysis, Saunders. <u>For laboratory reports:</u> notebook which can be used to take carbon copies which can be removed from the book (available at Copy Works)
CHEM2110 Semester II	REQ	- Housecroft, C. and Sharpe, A.G. Inorganic Chemistry, Prentice Hall - Vincent, A. Molecular Symmetry and Group Theory A Programmed Introduction to Chemical Applications, John Wiley & Sons
	REC	- Miessler, G.L., Fischer, P.J., and Tarr, D.A. Inorganic Chemistry, Prentice Hall
CHEM2111 Semester II	REQ	- Housecroft, C., Sharpe, A., Inorganic Chemistry, Prentice Hall - CHEM2111 Laboratory Manual, Chemistry Department, UWI, Mona.
CHEM2210 CHEM2211 Semester I	REQ	- Pavia, Lampman, Kriz & Vyvyan, Introduction to Spectroscopy, Thomson/Brooks Cole - Solomons & Fryhle, Organic Chemistry, Wiley
CHEM2310 Semester II	REQ	- Atkins & de Paula, Atkins' Physical Chemistry, Oxford Univ. Press.
	REC	- Shaw, Introduction to Colloid & Surface Chemistry, Butterworth Heinemann. - Young & Lovell, Introduction to Polymers, CRC Press.
	REF	- Moore, Physical Chemistry, Prentice Hall
CHEM2311 Semester I	REC	- Atkins, P.W. and de Paula, J.: <i>Atkins' Physical Chemistry</i> . Oxford University Press - CHEM2311 Laboratory Manual, Department of Chemistry, UWI, Mona - Garland, C.W., Nibler, J.W. and Shoemaker, D.P.: <i>Experiments in Physical Chemistry</i> , McGraw-Hill

CHEM2410 Semester I	REC	<ul style="list-style-type: none"> - Crittenden, J., Trussell, R., Hand, D., et al., MWH. Water Treatment, Principles and Design. John Wiley and Sons - Whiting N.E. and Drinan J.E., Water and Wastewater Treatment. CRC Press - Faust S.D. Faust F.D. and Aly O.M. Chemistry of Water Treatment. CRC Press - Lawrence K. W., Yung-Tse Hung, Howard H. Lo, Constantine Y., Waste Treatment in the Food Processing Industry. CRC Press - Mattson B. and Soneson U., Environmentally Friendly Food Processing. CRC Press - Tillman G.M., Wastewater Treatment: Trouble Shooting and Problem Solving. CRC Press - Waldron K., Waste Management and Co-product Recovery in Food Processing. CRC Press - Yuncong Li and Kati Migliaccio, Water Quality Concepts Sampling and Analyses.
	OR	<ul style="list-style-type: none"> - Mountain Empire Community College, (Virginia Community College System) Water/Wastewater Distance Learning Website: http://water.me.vccs.edu/courses/ENVI49/envI49_lessons.htm - Environmental Health and Safety Freeware; A free directory of environmental health and safety resources; Donley Technology, Virginia USA http://www.ehsfreeware.com/wwtom.htm - United States Geological Survey (USGS) - USGS Water Quality Information Pages http://water.usgs.gov/owq/ - United States Environmental protection Agency (USEPA) - USEPA Onsite Wastewater Treatment Manual: http://www.epa.gov/nrmrl/pubs/625r00008/html/625R00008.htm
CHEM2510 CHEM2511 CHEM2512 Semester I	REQ	- Fellows, Food Processing Technology, Woodhead Publishing
	REC	- Coultate, Food. The Chemistry of its Components, Royal Society of Chem
	REF	<ul style="list-style-type: none"> - Heldman & Hartel, Principles of Food Processing, Springer - Hui & Smith, Food Processing : Principles and Applications, Wiley-Blackwell - Jay, Modern Food Microbiology, Springer - Potter & Hotchkiss, Food Science, Chapman & Hall/Springer - Weddig, Balestrini & Shafer , Canned Foods, GMA Science & Education Foundation
CHEM3010 CHEM3011	REQ	<ul style="list-style-type: none"> - Kebbekus & Mitra, Environmental Chemical Analysis, Blackie Academic and Professional. - Skoog, West, Holler & Crouch, Fundamentals of Analytical Chemistry, Thomson
	REC	<ul style="list-style-type: none"> - Harris, Quantitative Chemical Analysis, FreemanHarvey, http://www.asdlib.org/onlinearticles/ecourseware/Analytical%20Chemistry%202.0/Text_Files.html - Miller & Miller, Statistics & Chemometrics for Analytical Chemistry, Wiley
	REF	<ul style="list-style-type: none"> - Jeffery, Bassett, Mendham & Denney, Vogel's Textbook of Quantitative Chemical Analysis, Longman. - Skoog, Holler & Nieman, Principles of Instrumental Analysis, Saunders. <p>For laboratory: a notebook which can be used to take carbon copies which can be removed from the book (available at Copy Works)</p>

CHEM3110 Semester I	REQ	- Housecroft, C. and Sharpe, A.G. Inorganic Chemistry, Prentice Hall
	REC	- Atkins, A. Overton, T., Rourke, J., Weller, M., Armstrong, F. Shriver and Atkins' Inorganic Chemistry. Oxford University Press. - Cotton, F. A., Murillo, C.A., Bochmann, M., and Grimes, R. N. Advanced Inorganic Chemistry. John Wiley and Sons - Miessler, G.L., Fischer, P.J., and Tarr, D.A., Inorganic Chemistry, Prentice Hall
CHEM3112 Semester II	REQ	- Housecroft, C. and Sharpe, A.G. Inorganic Chemistry, Prentice Hall
	REC	- Fraústo da Silva, J.J.R and Williams, R.J.P. The Biological Chemistry of the Elements: The Inorganic Chemistry of Life. Oxford University Press - Lippard, S., and Berg, J.M. Principles of Bioinorganic Chemistry, University Science Books - Roat-Malone, R.M. Bioinorganic Chemistry : A Short Course, Wiley-Interscience - Que, L. Jr., ed. Physical Methods in Bioinorganic Chemistry, University Science Books
	OR	- http://www.tvdsb.on.ca/westmin/science/sbi3aI/Cells/cellc.html - http://swissmodel.expasy.org//SWISS-MODEL.html - http://www.rcsb.org/pdb/static.do?p=education_discussion/molecule_of_the_month/pdb35_1.html - http://chem.ps.uci.edu/~pfarmer/127i/index.html - http://www.chemcases.com/cisplatin/ - http://www.chem.qmul.ac.uk/iupac/bioinorg/ - http://www.sbichem.org/
	REC	- Sykes, A Guidebook to Mechanism in Organic Chemistry, Pearson
	REF	- Furniss, Hannaford, Smith & Tatchell, Vogel's Textbook of Practical Organic Chemistry, Longman
CHEM3210 CHEM3211 Semester II	REQ	- Mackie, Smith & Aitken, Guidebook to Organic Synthesis, Prentice Hall. - Pavia, Lampman, Kriz & Vyvyan, Introduction to Spectroscopy, Thomson/Brooks Cole. - Solomons & Fryhle, Organic Chemistry, Wiley
	REC	- Furniss, Hannaford Smith & Tatchell, Vogel's Textbook of Practical Organic Chemistry, Longman. - Morris, Stereochemistry, Royal Society of Chemistry. - Sykes, A Guidebook to Mechanism in Organic Chemistry, Pearson.
CHEM3212 Semester II	REQ	- Carruthers & Coldham, Some Modern Methods of Organic Synthesis, Cambridge Univ. Press. - Mann, Chemical Aspects of Biosynthesis, Oxford Univ. Press - Silverstein & Webster, Spectrometric Identification of Organic Compounds, Wiley.
CHEM3213 Semester I	REC	- Green, Hartley & West, Chemicals for Crop Improvement & Pest Management, Pergamon. - Korolkovas, Essentials of Medicinal Chemistry, Wiley. - Patrick, An Introduction to Medicinal Chemistry, Oxford Univ. Press
	REF	- Buchel, Chemistry of Pesticides, Wiley. - Gilchrist, Heterocyclic Chemistry, Addison-Wesley Publishing - Joule & Mills, Heterocyclic Chemistry, Blackwell - Silverman, The Organic Chemistry of Drug Design and Drug Action, Academic

CHEM3310	REQ	<ul style="list-style-type: none"> - Atkins, P.W. and de Paula, J.: <i>Atkins' Physical Chemistry</i>, Oxford University Press - Atkins, P.W. and de Paula, J.: <i>The Elements of Physical Chemistry</i>, Oxford University Press - Banwell, C.N. and McCash, E.M.: <i>Fundamentals of Molecular Spectroscopy</i>, McGraw-Hill - Engel, T. and Reid, P.: <i>Physical Chemistry with Mastering Chemistry®</i>, Prentice Hall - Nash, L.K.: <i>Elements of Statistical Thermodynamics</i>, Dover
	OR	<ul style="list-style-type: none"> - http://www.khanacademy.org Video tutorials on several topics including Chemistry. - http://www.oup.com/uk/orc/bin/9780199226726/ - Course notes on OurVLE
CHEM3311 Semester II	REC	<ul style="list-style-type: none"> - Atkins, P.W. and de Paula, J.: <i>Atkins' Physical Chemistry</i>. Oxford University Press - CHEM2311 Laboratory Manual, Department of Chemistry, UWI, Mona. - Garland, C.W., Nibler, J.W. and Shoemaker, D.P.: <i>Experiments in Physical Chemistry</i>, McGraw-Hill
CHEM3312 Semester I	REQ	<ul style="list-style-type: none"> - Engel, T. & Reid, P. <i>Physical Chemistry with Mastering Chemistry®</i>, Prentice Hall - Shaw, D.J. <i>Colloid and Surface Chemistry</i>, Butterworth- Heinemann Ltd. - Smart, L.E., Moore, E. A. <i>Solid State Chemistry: An Introduction</i>. CRC Press, Taylor & Francis Group.
	REC	<ul style="list-style-type: none"> - Cheetham, A.K., Day, P. <i>Solid State Chemistry Techniques</i>, Oxford University Press - Rao, C.N.R., Müller, A. and Cheetham, A.K. <i>The Chemistry of Nanomaterials: Syntheses, Properties and Applications</i>, Wiley-VCH, Verlag GmbH and Co. KGaA, Weinheim
	OR	<ul style="list-style-type: none"> - http://www.Khanacademy.org. Video tutorials on several topics including chemistry. - http://www.Oup.Com/uk/orc/bin/9780199226726/ (accessed 16/02/2012). - Course notes on OurVLE.
CHEM3313 Semester II	REC REC	<ul style="list-style-type: none"> - Atkins, P.W. & de Paula, J. <i>Physical Chemistry</i>. Oxford University Press - Engel, T. & Reid, P. <i>Physical Chemistry with Mastering Chemistry®</i>. Prentice Hall
	OR	<ul style="list-style-type: none"> - Computational Methods: ocw.mit.edu/courses/chemistry/ - Magnetic Resonance Spectroscopy: 140.117.34.2/faculty/phy/sw_ding/teaching/nmrI-chap17.pdf - Redox Processes and Advanced Electrochemistry: http://allwebhunt.com/dir-wiki.cfm/Top/Science/Chemistry/Electrochemistry
CHEM3401 Semester I	REF	<ul style="list-style-type: none"> - Batty, <i>An Introduction to Cost & Management Accounting</i>, Heinemann - Bernstein & Wild, <i>Analysis of Financial Statements</i>, McGraw-Hill - Douglas, <i>Managerial Economics. Analysis & Strategy</i>, Prentice Hall - Horngren & Sundew, <i>Introduction to Management Accounting</i>, Prentice Hall - Musselman & Hughes, <i>Introduction to Modern Business: Analysis & Interpretation</i>, Prentice Hall - Resnick, <i>Process Analysis & Design for Chemical Engineers</i>, McGraw-Hill - Statistical Institute of Jamaica, <i>Consumer Price Index</i>, Statin Pubs - Statistical Institute of Jamaica, <i>National Income and Product</i>, Statin Pubs - Thompson, <i>Economics of the Firm: Theory & Practice</i>, Prentice Hall Int'l Ed

CHEM 3402	REC	<ul style="list-style-type: none"> - Chenier, P.J. Survey of Industrial Chemistry, Springer - Donaldson, D., Raahauge, B., Essential Readings in Light Metals - Volume I: Alumina and Bauxite, The Minerals, Metals & Materials Society - Gesser, H.D., Applied Chemistry: A Textbook for Engineers and Technologists, Kluwer Academic/Plenum Publishers N.Y. - Heaton C.A. Introduction to Industrial Chemistry. Springer - Hewlette, P. C. (Ed.) Lea's Chemistry of Cement and Concrete, Elsevier Ltd. - Kauffman G.B. Ullman's Encyclopedia of Industrial Chemistry Springer - Lancaster M. Green Chemistry: An Introductory Text. Royal Society of Chemistry - Reigel E.R. and Bissinger H.G., Riegel's Handbook of Industrial Chemistry, Springer - Speight, J. G, The Chemistry and Technology of Petroleum, CRC Press - Warner J.C. and Anastas P.J., Green Chemistry. Oxford University Press, - Weissermel K. and Arpe H-J. Industrial Organic Chemistry, Wiley VCH
CHEM3403	REQ	<ul style="list-style-type: none"> - Himmelblau, D.M., Riggs, J. Basic Principles and Calculations in Chemical Engineering, , Prentice Hall - McCabe, W.L., Smith, J.C. and Harriott, P. Unit Operations of Chemical Engineering, McGraw-Hill
	REC	<ul style="list-style-type: none"> - Elliott, JR, Lira, CT. Introductory Chemical Engineering Thermodynamics. Prentice Hall. - Fogler, H. S., Essentials of Chemical Reaction Engineering, Prentice Hall, - Geankoplis, C.J., Transport Processes and Separation Process Principles (Includes Unit Operations), Prentice Hall. - Massey, B., Ward-Smith, J., Mechanics of Fluids, Stanley Thornes Ltd. - Smith, Robin. Chemical Process: Design and Integration. John Wiley and Sons - Stoker, Stephen H. Introduction to Chemical Principles, Prentice Hall. - Tester, Jefferson W., and Michael Modell. Thermodynamics and its Applications. Upper Saddle River, NJ: Prentice Hall
CHEM3510 CHEM3511 CHEM3512 Semester II	REQ	<ul style="list-style-type: none"> - Coultate, T.P., Food. The Chemistry of its Components, Royal Society of Chem.
	REC	<ul style="list-style-type: none"> - Damodaran, Parkin & Fennema, Fennema's Food Chemistry, CRC Press - Deman, Principles of Food Chemistry, Springer
	REF	<ul style="list-style-type: none"> - Belitz, Grosch & Schieberle, Food Chemistry, Springer - Fox and Cameron, Food Science, Nutrition & Health, Hodder Education. - Nielsen, Food Analysis, Springer. - Pomeranz and Meloan, Food Analysis: Theory and Practice, Springer
CHEM3513	REQ	<ul style="list-style-type: none"> - Marriott, Norman G & Gravani, Robert B. Principles of Food Sanitation. Springer - Scott, Virginia N. & Stevenson, Kenneth E. HACCP Manual: A Systematic Approach to Food Safety.
	REF	<ul style="list-style-type: none"> - Alli, Inteaz. Food Quality Assurance: Principles and Practices. CRC Press. - Guillermo Etienne. Principles of Cleaning and Sanitation in the Food and Beverage Industry. iUniverse, Inc.
CHEM3610	REC	<ul style="list-style-type: none"> - Van-Loon G.W. and Duffy S.J. (2010) Environmental Chemistry: A global perspective. 3rd edition, Oxford University Press. ISBN 978-0-19-922886-7.

		<ul style="list-style-type: none"> - Manahan, S.E., (2010), Water Chemistry: Green Science and Technology of Nature's most renewable resource. CRC Press. ISBN 9781439830680. - Greenaway A.M, (2002), The Planetary Environment: A Chemical perspective. In Natural Resource Management for Sustainable Development in the Caribbean. Eds I. Goodbody and E. Thomas-Hope. Canoe Press. ISBN 9768125764. - Brezonik, P.L., Arnold, W.A., (2011) Water Chemistry: An Introduction to the Chemistry of Natural and Engineered Aquatic Systems. Oxford University press. . ISBN 9780199730728. - Manahan S. Environmental Chemistry. 9th edition. 2009. CRC Press. ISBN 9781420059205 - Lancaster M. , (2002), Green chemistry: An Introductory text. Royal Society of Chemistry. ISBN 0854046208 - Stumm W. and Morgan J.J., (1995) Aquatic Chemistry: Chemical equilibria and rates in natural waters. Wiley Interscience. ISBN 0471511854.
	OR	<ul style="list-style-type: none"> - http://www.noaa.gov - http://water.epa.gov/ - http://en.wikipedia.org/wiki/Water - http://ec.europa.eu/environment/water/index_en.htm
CHEM3611	REC	<ul style="list-style-type: none"> - Weiner, E.R. (2012). Applications of Environmental Aquatic Chemistry: A Practical Guide. 3rd edition, CRC Press ;ISBN-10: 1439853320 - Van-Loon G.W. and Duffy S.J. (2010). Environmental Chemistry: A global perspective. 3rd edition, Oxford University Press. . ISBN 978-0-19-922886-7. - Essington, M.E., (2003). Soil and Water Chemistry: An Integrative Approach; CRC Press ISBN-10: 0849312582 - Kebbekus, B.B. and Mitra, S., (1998). Environmental Chemical Analysis: Chapman & Hall. . ISBN 0-7514-0456-X. - Manahan, S.E., (1010). Water Chemistry: Green Science and Technology of Nature's most renewable resource. CRC Press. ISBN 9781439830680.
	OR	<ul style="list-style-type: none"> - http://www.noaa.gov - http://water.epa.gov/ - http://www.who.int/water_sanitation_health/resourcesquality/wqmonitor/en/ - http://ec.europa.eu/environment/water/index_en.htm - http://www.who.edu/OCB-OA/page.do?pid=112136 - http://pubs.usgs.gov/circ/circ1139/htdocs/natural_processes_of_ground.htm
CHEM3612	REQ	<ul style="list-style-type: none"> - Holloway A.M., Wayne R.P. (2010). Atmospheric Chemistry. RSC, Cambridge, . ISBN 9781847558077 - Bashkin V.N. and Howarth W.W., (2003). Modern Biogeochemistry. Springer . ISBN 140200994.
	REC	<ul style="list-style-type: none"> - Hobbs, P.V. (2000). Introduction to Atmospheric Chemistry. Cambridge University Press ISBN 052177800 - Brimblecombe P. (1995). Air Composition and Chemistry. Cambridge University Press, . ISBN 0521459729. - Seinfeld J.H. and Pandis S.N. (2006). Atmospheric Chemistry and Physics: From Air Pollution to Climate Change. J. Wiley and Sons. ISBN 0471720186. - Finlayson-Pitts B.J. and Pitts J.N. (2000). Chemistry of the Upper and Lower Atmosphere. Academic Press. ISBN 12257060.

		<ul style="list-style-type: none"> - Jacob D.J., (1999). Introduction to Atmospheric Chemistry. Princeton University Press .ISBN 0691001855. - Schlesinger W.H., (1997). Biogeochemistry: An Analysis of Global Change. Academic Press . ISBN 012625155X. - Berner, E.K. and Berner R.A. (2012). Water, Air and Geochemical Cycles. Prentice Hall .ISBN 9780691136783. - Sparks D.L. (2002). Environmental Soil Chemistry. Elsevier .ISBN 0126564469. - Bland W.J. and Rolls D. (1998). Weathering: An Introduction to the Basic Principles. Oxford University Press. ISBN 0340677449.
	OR	<ul style="list-style-type: none"> - http://www.noaa.gov - http://water.epa.gov/ - http://en.wikipedia.org/wiki/Biogeochemical_cycle - http://www2.ucar.edu/
CHEM362I	REC	<ul style="list-style-type: none"> - Van-Loon G.W. and Duffy S.J. Environmental Chemistry: A global perspective. 3rd edition, Oxford University Press. 2010. ISBN 978-0-19-922886-7. - Manahan, S.E. Water Chemistry: Green Science and Technology of Nature's most renewable resource.CRC Press. 2010. ISBN 9781439830680. - Stumm W. and Morgan J.J. Aquatic Chemistry: Chemical equilibria and rates in natural waters. 1995. Wiley Interscience. ISBN 0471511854.Selected journal articles.
	OR	<ul style="list-style-type: none"> - http://www.noaa.gov - http://water.epa.gov/ - http://ec.europa.eu/environment/water/index_en.htm - http://www.who.edu/OCB-OA/page.do?pid=112136 - http://pubs.usgs.gov/circ/circ1139/htdocs/natural_processes_of_ground.htm - http://www.science-house.org/nedis/index.html
CHEM371I	OR	<p>Journal of Undergraduate Research: http://www.vmi.edu/content.aspx?id=2150</p> <p>American Chemical Society:</p> <ul style="list-style-type: none"> - Undergraduate Research in Chemistry http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP_SUPERARTICLE&node_id=2213&use_sec=false&sec_url_var=region1&uuid=0c93b49c-f2a8-4c4b-ad1f-58416a158019 - Undergraduate Research in Chemistry Guide http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP_SUPERARTICLE&node_id=2215&use_sec=false&sec_url_var=region1&uuid=3bd11d22-fa66-476b-80ca-ee10cac63899 - Preparing a Research Report http://portal.acs.org/portal/fileFetch/C/CTP_005606/pdf/CTP_005606.pdf

COURSE TITLES AND COORDINATORS

CODES	TITLES	COORDINATORS
CHEM2010	Introductory Chemical Analysis	Dr. Michael Coley
CHEM2011	Introductory Chemical Analysis Lab	Dr. Michael Coley
CHEM2110	Advanced Inorganic Chemistry A	Dr. Mohammed Bakir
CHEM2111	Inorganic Chemistry Laboratory I	Dr. Nickeisha Stephenson
CHEM2210	Organic Chemistry A	Prof. Paul Reese
CHEM2211	Organic Chemistry Laboratory I	Dr. Winklet Gallimore
CHEM2310	Physical Chemistry A	Prof. Willem Mulder
CHEM2311	Physical Chemistry Laboratory I	Dr. Paul Maragh
CHEM2402	Chemistry in Our Daily Lives	Dr. Petrea Facey
CHEM2410	Water Treatment	Dr. Debbie – Ann Gordon Smith
CHEM2510	Food Processing Principles I	Dr. Andrea Goldson-Barnaby
CHEM2511	Food Processing Principles Lab	Dr. Patrice Peart
CHEM2512	Food Processing Principles II	Dr. Andrea Goldson- Barnaby
CHEM3010	Chemical Analysis B	Dr. Debbie – Ann Gordon Smith
CHEM3011	Instrumental Chemical Analysis lab B	Dr. Debbie – Ann Gordon Smith
CHEM3110	Advanced Inorganic Chemistry B	Dr. Novelette Sadler – McKnight
CHEM3112	The Inorganic Chemistry of Biological Systems	Dr. Novelette Sadler – McKnight
CHEM3210	Organic Chemistry B	Dr. Winklet Gallimore
CHEM3211	Organic Chemistry Laboratory II	Prof. Paul Reese
CHEM3212	Natural Products Chemistry	Dr. Roy Porter
CHEM3213	Applications of Organic Chemistry in Medicine & Agriculture	Dr. Roy Porter
CHEM3310	Physical Chemistry B	Dr. Paul Maragh
CHEM3311	Physical Chemistry Laboratory II	Prof. Willem Mulder
CHEM3312	Chemistry of Materials	Prof. Willem Mulder
CHEM3313	Topics in Advanced Physical Chemistry - Structure, Dynamics & Computational Methods	Prof. Willem Mulder
CHEM3401	Project Evaluation and Management for Science Based Industries	Dr. Andrea Goldson- Barnaby
CHEM3402	The Chemical Industries	Dr. Michael Coley/ Dr. Debbie – Ann Gordon Smith
CHEM3403	Chemical Process Principles	Dr. Michael Coley
CHEM3510	Food Chemistry I	Dr. Donna Minott-Kates
CHEM3511	Food Chemistry Lab	Dr. Patrice Peart

CHEM3512	Food Chemistry II	Dr. Patrice Peart
CHEM3513	Food Safety	Dr. Donna Minot – Kates
CHEM3610	Marine and Freshwater Chemistry	Dr. Michael Coley
CHEM3611	Marine and Freshwater Chemistry Laboratory	Dr. Michael Coley/ Dr. Rosemarie Wilson
CHEM3612	Atmospheric Chemistry & Biogeochemical Cycles	Dr. Debbie – Ann Gordon Smith
CHEM3711	Chemistry Research Project	Dr. Petrea Facey/ Dr. Nickeisha Stephenson