

**Nutrition Topics in the NAA Schools  
2013 Curricula**  
(First 11 schools listed were awarded the NAA in 2005)  
*Underline indicates course name, \* indicates key topics*

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Albert Einstein College of Medicine</b></p> <p>Contact: <i>Judith Wylie-Rosett, Ed.D, R.D.</i></p> <p>Professor and Division Head for Health Promotion and Nutrition Research</p> <p><a href="mailto:Judith.Wylie-Rosett@einstein.yu.edu">Judith.Wylie-Rosett@einstein.yu.edu</a></p>	<p><u>Preventive Medicine</u> discusses nutrition-related research papers. Analysis of NYC EpiQuery data to address obesity and health disparities.</p> <p><u>Nutrition &amp; Health: Patients &amp; Populations elective</u> includes dieting myths, dietary recommendations to reduce risks for <b>*cardiovascular disease, cancer,</b> and <b>*diabetes</b>, as well as assessing dietary intake through biomarkers and labels. Students learn and report <b>*motivational interviewing.</b></p>	<p><u>GI Pathophysiology</u> includes lectures on Inflammatory Bowel Disease and Weight and Morbidity and Mortality.</p>	<p><u>Geriatric Clerkship</u> includes a case-based experience on Aging and Malnutrition.</p>	<p><u>Ambulatory Care</u> has students give nutrition-themed case presentations.</p> <p><u>Nutrition and Chronic Disease Prevention Clinical Rotation Elective</u> has the student develop a project on a nutrition issue.</p>	<p><u>Clinical Research Training Program CRTP) Master's Degree</u> Nutritional Epidemiology Students develop and evaluate a hypothesis.</p> <p><u>Behavioral Dimensions of Public Health – Psychology Graduate Course</u> addresses lifestyle and health using class discussion and small group projects.</p> <p><u>OBGYN Residency</u> addresses <b>obesity</b> management in pregnancy.</p> <p><u>Endocrinology Fellowship</u> addresses <b>*diabetes</b> and medical nutrition therapy.</p>
<p><a href="http://www.einstein.yu.edu/education/md-program/curriculum/">http://www.einstein.yu.edu/education/md-program/curriculum/</a></p>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Harvard Medical School</b>  Contact: W. Scott Butsch, M.D., M.S.  Email: <a href="mailto:wbutsch@partners.org">wbutsch@partners.org</a></p>	<p><u>Integrated Curriculum</u> – Basic nutrition science is inserted throughout the year</p> <p><u>Physical Dx:</u> Nutrition assessment, taking diet/exercise history</p> <p><u>Molecular and Cellular Basis of Medicine:</u> Macronutrient Metab, Nucleotide Metab, Glycogen Storage Dis</p> <p><u>Social Medicine:</u> Diabetes; Calorie Restriction, Social health</p> <p><u>Human Body:</u> Folic Acid&amp; Embryogenesis</p> <p><u>Genetics:</u> Crohn’s, Galactosemia, Newborn screening, Mitochondrial Dis</p> <p><u>Epid:</u> Obesity Epidemic and related topics</p> <p><u>Policy:</u> Health reform, health care costs and obesity; Regulation of food labels</p> <p><u>Physio:</u> GI physiology; Macronutrient digestion and transport; Calcium Metabolism</p> <p>Note: <u>Students for Nutrition</u> – student led interest group consisting of 1<sup>st</sup>/2<sup>nd</sup> students plans short talks on nutrition related topics.</p>	<p><u>Introduction to Clinical Nutrition Course</u> (3day,9hr)  -Case based learning, lectures, peer-peer learning on Obesity (pathophysiology, regulation, genetics, counseling), Malnutrition (pathophysiology, refeeding syn, EN/PN), Macro/Micronutrients(vitamin deficiency), and Counseling on variety of current nutrition topics (e.g., gluten sensitivity, Salt/HTN, Artificial sweeteners)</p> <p><u>Integrated Curriculum in other courses</u></p> <p><u>Development:</u> Poor nutrition and developmental outcomes</p> <p><u>Pharmacology:</u> drug-nutrient interaction(folate)</p> <p><u>Derm:</u> skin manifestations of vitamin deficiencies</p> <p><u>Ortho:</u> Obesity and arthritis</p> <p><u>Rheum:</u> RA cachexia,</p> <p><u>Pulm:</u> COPD and cachexia</p> <p><u>Heme:</u> B12, Folate and Iron deficiency</p> <p><u>Renal:</u> TPN and IV fluids</p> <p><u>Intro to Clin Psych:</u> Medication-induced weight gain (SSRIs, AAPD); Eating disorders (Anorexia and Bulimia)</p> <p><u>Neuro:</u> Vitamin B12 and neuropathy, CNS regulation of obesity, ketogenic diet and seizures, Risk factors for CVA)</p> <p><u>Endo:</u> Diabetes tx(diet), PCOS, Insulin resistance</p> <p><u>GI :</u> NAFLD, Crohns,</p>	<p>Nutrition taught in clerkships at 4 HMS-affiliated hospitals varies in case presentations and lectures.</p> <p>Topics include TPN/EN, Bariatric surgery(surgery), Failure to thrive(peds), medicine-induced weight gain, eating disorders, nutrition and mental illness(Psychiatry), weight gain and pregnancy (Obs/Gyn), nutrition assessment and dietary counseling in patients with diabetes, obesity(medicine)</p>	<p>Elective teaching:</p> <p>Students choose to be involved in a variety of research projects with faculty from HMS hospitals.</p>	<p>Lifestyle Medicine Fellowship Program  <a href="http://www.instituteoflifestylemedicine.org/">http://www.instituteoflifestylemedicine.org/</a></p>
<p><a href="http://hms.harvard.edu/sites/default/files/assets/Sites/PME/files/Curriculum_Redesign_Map_022315.pdf">http://hms.harvard.edu/sites/default/files/assets/Sites/PME/files/Curriculum_Redesign_Map_022315.pdf</a>  <a href="http://hms.harvard.edu/departments/medical-education/md-programs/pathways">http://hms.harvard.edu/departments/medical-education/md-programs/pathways</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Mercer University School of Medicine</b></p> <p>Contact: <i>Susan Cline, Ph.D.</i></p> <p>Director, M.S. in Preclinical Sciences Program, Associate Professor of Biochemistry</p> <p><a href="mailto:cline_sd@mercer.edu">cline_sd@mercer.edu</a></p>	<p><u>Biomedical Problems</u> includes small group, <b>*problem-based learning</b> for nutrition topics. Nutrition principles are covered: macro- and micronutrients, energy balance, fluid and electrolyte balance, nutrient deficiencies and excesses, free radical injury, nutrient requirements, inborn errors of <b>*metabolism</b>, and <b>*physical activity</b>. Life cycle nutrition, including <b>*osteoporosis</b> and <b>*preconception</b> nutrition, is discussed, as well as <b>*hyperlipidemia</b>, glucose metabolism, nutritional <b>*anemias</b>, nutrition in <b>*immune</b> function, lipid peroxidation, and bone health (nutrients, osteoporosis/osteomalacia, rickets, and nutrition therapy). <u>Fundamentals of Clinical Practice – Clinical Skills</u> teaches history taking and physical examination through lectures and <b>*standardized patient</b> practicums. <u>Community Medicine</u> includes epidemiology (<b>*obesity</b> and <b>*diabetes</b>) and community assessment.</p>	<p><u>Biomedical Problems</u> includes nutrition principles in small groups and PBL. Topics include <b>*cholesterol</b>/lipoprotein metabolism, energy balance, micronutrients, fiber, nutrient deficiencies/excesses, free radical injury, and <b>*nutritional assessment</b>. <b>*Eating disorders</b>, <b>*pregnancy, lactation</b>, and menopause are discussed, as are factors of hyperlipidemia. Principles and diagnosis of obesity and diabetes are learned. <b>*GI, Pulmonary</b>, and <b>*Renal</b> diseases and therapies are discussed. <u>Fundamentals of Clinical Practice – Clinical Skills</u> includes nutrition-focused history taking and physical exam <u>Fundamentals of Clinical Practice – Community Office</u> focuses on attitudes in nutrition practice.</p>	<p><u>Pediatrics Clerkship</u> includes breastfeeding, interventions for common diseases, malnutrition, and recommendations. <u>Family Medicine Clerkship</u> includes nutrition in health promotion, prevalence of overweight/obesity and malnourishment, and nutritional <b>*counseling</b>. Behaviors in nutrition and diet management are covered. Nutritional assessment is practiced. A lecture on the benefits of physical activity is included. One week of <b>*geriatric</b> medicine is included. Women’s health and recommendations are discussed. LDL, obesity, blood pressure, and the <b>*DASH</b> diet, and CHF are discussed. Obesity and the prevention and complications of diabetes are covered. Constipation, <b>*cancer</b> therapy, food allergy vs. intolerance, sleep apnea, renal disease, and bone health/osteoporosis are included. Dietary assessment of <b>*fads</b> and supplements is included. <u>Internal Medicine Clerkship</u> includes CDIM-SGIM based lectures and practices covered in Family Medicine.</p>	<p><u>Geriatric Medicine</u> 4 week selective is offered. <u>Internal Medicine</u> electives are offered in Endocrinology, Cardiology, Gastroenterology, and Critical Care.</p>	<p>None</p>
<p><a href="http://medicine.mercer.edu/academics/">http://medicine.mercer.edu/academics/</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Northwestern University Feinberg School of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Linda Van Horn, Ph.D., R.D.</i></p> <p>Associate Dean for Faculty Development</p> <p><a href="mailto:lvanhorn@northwestern.edu">lvanhorn@northwestern.edu</a></p>	<p>Nutrition is integrated during the first 10 weeks of “<u>Foundations</u>” where students assess and modify their own lifestyle. A “<u>Health and Society</u>” thread runs the first two years with specific focus on the role of diet and nutrition in every organ system. Students learn how to assess diet as and find the National Dietary guidelines for the population at large, as well as for disease states such as *<b>cardiovascular disease</b>, *<b>diabetes</b>, *<b>renal</b> disease, etc.</p> <p>Estimated total time = 30hrs</p>	<p><u>Scientific Basis of Medicine Course (SBM)</u> includes evidence-based *<b>dietary assessment</b>, prevention and treatment in chronic diseases including *<b>obesity</b>, cardiovascular, diabetes, *<b>cancer</b>, *<b>osteoporosis</b>, and strategies in maternal, *<b>pediatric</b> and *<b>geriatric</b> nutrition.</p> <p>Topics include use or abuse of vitamins, minerals, supplements, and one session covers *<b>GI</b> problems, (e.g., short bowel syndrome, gastroesophageal reflux disease, Crohn’s disease).</p> <p>Estimated total time = 10hrs</p>	<p>Students learn clinical nutrition concepts during the <u>Surgical, Medicine, Primary Care</u> and <u>Interdisciplinary</u> clerkships. These include didactic lectures on clinical nutrition issues plus student-led case studies precepted by an *<b>RD</b> or MD. “Introduction to Hospital Diets and Diet Orders” is conducted during Introduction to Clinical Clerkship week. Students learn prescription diets, when to consult an RD and appropriate *<b>counseling</b> decisions.</p> <p>Estimated total time = 8 hrs</p>	<p>Nutrition electives/self-study are available to fourth year students.</p>	<p>CME nutrition lectures and seminars occur as time and funding allow. Typically, a total of 10 hours per year are available for nutrition seminars/discussions across a wide range of nutrition-related fields including basic science and clinical topics.</p>
<p><a href="http://www.feinberg.northwestern.edu/education/curriculum/index.html">http://www.feinberg.northwestern.edu/education/curriculum/index.html</a></p>					

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<p><b>Stanford School of Medicine</b></p> <p><u>Contact:</u> <i>Madika Bryant, M.A.</i></p> <p>Education Manager, Practice of Medicine</p> <p><a href="mailto:Mbryant6@stanford.edu">Mbryant6@stanford.edu</a></p> <p><i>Sara Clemons, M.Ed.</i></p> <p>Assistant Director for Clerkship Education</p> <p><a href="mailto:sclemons@stanford.edu">sclemons@stanford.edu</a></p>	<p><u>Nutrition Principles</u> discusses nutrition basics, proteins and amino acids, <b>*nutritional assessment</b>, vitamins, minerals, carbohydrates, lipids, and energy.</p> <p><u>Clinical Nutrition</u> discusses nutrition in maintaining overall health and prevention and treatment of <b>*obesity</b> and <b>*cardiovascular disease (CVD)</b>.</p>	<p><u>Clinical Nutrition</u> discusses nutrition during pregnancy and infancy through adolescence, nutrition therapy for <b>*diabetes mellitus</b>, <b>*gastrointestinal disorders</b>, and <b>*cancer</b> treatment, contemporary trends, and <b>*enteral and parenteral</b> nutrition.</p>	<p><u>Ambulatory Medicine Clerkship</u> includes sessions in <b>*hyperlipidemia</b> and <b>*hypertension</b>.</p> <p><u>Family Medicine Clerkship</u> includes sessions on nutrition in <b>*breast feeding</b> and integrative medicine.</p> <p><u>Neurology Clerkship</u> includes nutritional management of headache.</p> <p><u>Ob/Gyn Clerkship</u> contains a nutrition component.</p>	None	None
<p><a href="http://med.stanford.edu/md/curriculum/overview.html">http://med.stanford.edu/md/curriculum/overview.html</a></p>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Tufts University School of Medicine</b></p> <p>Contact:</p> <p><i>Ed Saltzman, M.D.</i></p> <p>Chair, Dept. Nutritional Sciences</p> <p><a href="mailto:Edward.saltzman@tufts.edu">Edward.saltzman@tufts.edu</a></p>	<p>Two hours devoted to nutrition counseling and <b>*motivational interviewing</b>.</p>	<p>Nutrition in Medicine (23 hours) runs concurrently with <b>*GI</b> block.</p>	<p><u>Surgery, Pediatrics, and Medicine Clerkships</u> have a minimum of 1 hour of <b>*case-based</b> discussion or presentation.</p> <p><u>Ambulatory Medicine Clerkship</u> has a rotation with outpatient <b>*obesity</b> treatment.</p>	<p>Optional 4-week clinical nutrition elective.</p>	<p>Fellowships in <b>*Pulmonary</b>/Critical Care Medicine and <b>*Gastroenterology</b> with required nutrition rotations.</p> <p><b>*Dental School</b> Nutrition course (20 hours)</p> <p><b>*Physician Assistant</b> nutrition course (21 hours).</p>

[md.tufts.edu/Education/Doctor-of-Medicine/MD-Curriculum-Overview](http://md.tufts.edu/Education/Doctor-of-Medicine/MD-Curriculum-Overview)

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Alabama School of Medicine</b></p> <p><u>Contact:</u> <i>Craig Hoesley, M.D.</i></p> <p>Associate Dean for Undergraduate Medical Education</p> <p><a href="mailto:choesley@uab.edu">choesley@uab.edu</a></p>	<p>Fundamentals module reviews <b>*cellular metabolism</b>, and students keep a dietary diary.</p> <p><u>GI</u> module (6 weeks) covers the principles of nutrition and metabolism extensively.</p> <p><u>Introduction to Clinical Medicine</u> course teaches obtaining dietary information from history taking and physical exams.</p>	<p><u>Introduction to Clinical Medicine</u> course continues.</p>	<p><u>Family Medicine Clerkship</u> includes history taking, patient <b>*counseling</b>, and physical assessments.</p> <p><u>Pediatrics Clerkship</u> includes infant feeding and pediatric <b>*obesity</b>. Didactic is included in clerkships.</p>	<p>Continuation of third year clerkships.</p> <p><u>Electives:</u> Clinical Management of Obesity (for third and fourth year students) – students learn clinical approaches and counseling strategies for obesity.</p> <p>Nutrition support elective – students obtain lab data, perform glucose tests, and perform a <b>*nutritional assessment</b> on new patients.</p>	<p><u>Internal Medicine residency</u> – clinical nutrition rotations are required.</p> <p>GI and nutrition fellowships available.</p>
<p><a href="http://www.uab.edu/medicine/home/medical-education/undergraduate-medical-education/curriculum">http://www.uab.edu/medicine/home/medical-education/undergraduate-medical-education/curriculum</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Arkansas School of Medicine</b></p> <p>Contact:</p> <p><i>Ronald Kahn, M.D.</i></p> <p>Policy Advisor, Arkansas Center for Health Improvement</p> <p><a href="mailto:KahnRonaldF@uams.edu">KahnRonaldF@uams.edu</a></p>	<p><u>Introduction to Clinical Medicine</u> includes prevention of <b>*Coronary Heart Disease, nutrition assessment</b>, and standardized family nutrition assessment. It also includes a supermarket tour.</p> <p><u>Cell Biology</u> includes <b>*biochemistry</b> and preventative nutrition in <b>*hyperlipidemia, *diabetes</b>, and folate/homocysteine.</p> <p>Total = 12 hours.</p>	<p><u>Introduction to Clinical Medicine</u> includes <b>*counseling</b> to prevent CHD (standardized patient counseling) and <b>*obesity</b>. It also includes an OSCE nutrition station.</p> <p>Total = 6 hours.</p>	<p><u>Family Medicine Clerkship</u> includes risk factors and nutrition assessment in CHD and a “Nutrition in Medicine” module covering diet, obesity, and <b>*cardiovascular disease</b>.</p> <p><u>Pediatric Clerkship</u> includes <b>*childhood nutrition</b> and a <b>*PBL</b> in Adolescent Obesity and Diabetes Prevention.</p> <p>Total = 8 hours.</p>	<p>None</p>	<p>None</p>

<http://www.uab.edu/medicine/home/medical-education/undergraduate-medical-education/curriculum>

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Colorado School of Medicine</b></p> <p>Contact: <i>Nancy Krebs, M.D., M.S.</i></p> <p>Head, Section of Nutrition</p> <p><a href="mailto:Nancy.Krebs@ucdenver.edu">Nancy.Krebs@ucdenver.edu</a></p> <p><i>Laura Primak, R.D., CNSC</i></p> <p>Coordinator, School of Medicine Nutrition Electives</p> <p><a href="mailto:laura.primak@ucdenver.edu">laura.primak@ucdenver.edu</a></p>	<p><u>Foundations of Doctoring</u> reviews history taking and physical exams relevant to nutrition status.</p> <p><u>Digestion, Endocrine and Metabolic Systems</u> includes <b>*metabolism</b> of macronutrients and energy balance, as well as normal nutritional requirements and the clinical results of energy imbalance (<b>*obesity, *diabetes, *hyperlipidemia,</b> and <b>*osteoporosis</b>).</p>	<p><u>Metabolism Course</u> integrates "Principles of Nutrition." 26 hours are spent on nutritional <b>*biochemistry</b> in public health issues and clinical medicine.</p> <p><u>Foundations of Doctoring</u> includes advanced physical exam for <b>*cardiovascular system</b> and <b>*nutrition assessment</b> for hyperlipidemia and obesity.</p>	<p><u>Family Medicine Clerkship</u> includes weight loss and <b>*failure to thrive</b>, obesity, <b>*hypertension</b>, dyslipidemia, and Diabetes Mellitus.</p> <p><u>Internal Medicine Clerkship</u> includes nutrition assessment and dietary care of the adult hospitalized patient.</p> <p><u>Pediatrics Clerkship</u> includes small group discussions on infant nutrition, obesity, and interactive nutrition digitized <b>*case studies</b> on growth failure and obesity.</p>	<p><u>Introduction to Clinical Nutrition Elective</u> includes nutrition support, outpatient clinics (obesity, diabetes, growth, <b>*bone</b> disease, <b>*GI/Liver</b>), and self-directed learning activities including online modules, calorimetry, DEXA, and critical review of literature on topic of choice.</p> <p><u>Breastfeeding Management</u> elective puts students in patient <b>*lactation</b> clinics, includes self-directed learning activities (CD-ROM, written paper, and view video), and gives a written case-based exam.</p>	<p><u>Internal Medicine Residency</u> has a Clinical Nutrition Elective including time with <b>*dietitians</b>, certified diabetes educators, physician nutrition specialists, and pharmacists. Nutrition In Medicine modules are used.</p> <p><u>Pediatric Residency</u> has a Clinical Nutrition Elective including time with specialists in <b>*pediatric nutrition</b>, dietitians in the wards, in outpatient specialty clinics, and with physicians in nutrition specialty clinics.</p> <p><u>Fellowship in Pediatric Nutrition</u> involved clinical training tailored to interests of fellow (obesity, neonatology, critical care/<b>*nutrition support</b>, GI, general nutrition care). NIH/NIDDK supported T32 post-doctoral training grant in Nutrition for research training; physicians are priority for fellowship training.</p>

[http://www.ucdenver.edu/academics/colleges/medicalschoo/education/degree\\_programs/MDProgram/Pages/default.aspx](http://www.ucdenver.edu/academics/colleges/medicalschoo/education/degree_programs/MDProgram/Pages/default.aspx)

University/ Contact	Year 1	Year 2	Year 3	Year 4	Other (Residency and/or nursing)
<p><b>University of Nevada School of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Barbara Scott, MPH, R.D.</i></p> <p>Associate Professor of Nutrition</p> <p><a href="mailto:bscott@medicine.nevada.edu">bscott@medicine.nevada.edu</a></p>	<p>A Scholarly Concentration Program in Nutrition offers a stipend to 1 student/year and continues through year 4.</p>	<p>Scholarly Concentration Students present their research at local and potentially national conventions.</p>	<p><u>Family Medicine</u> and <u>Pediatrics Clerkships</u> involve nutrition. Scholarly Concentration Students engage in patient nutrition education.</p>	<p>Nutrition electives are offered. Scholarly Concentration students must take a nutrition-related elective and present their results. Their total contact hours in nutrition for years 1-4 must be at least 320 hours, and they graduate with a special distinction in nutrition.</p>	<p><u>Family Medicine Residency</u> provides a nutritionist on staff. Other residencies have lectures/conferences on nutrition as it relates to the case.</p>
<p><a href="http://campusguides.unr.edu/unsomcurriculum">http://campusguides.unr.edu/unsomcurriculum</a></p>					

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<p><b>University of Pennsylvania School of Medicine</b></p> <p>Contact:</p> <p><i>Anna Delaney</i> Director, Curriculum Office <a href="mailto:delaneya@mail.med.upenn.edu">delaneya@mail.med.upenn.edu</a></p> <p><i>Gail Morrison, M.D.</i> Vice Dean for Education <a href="mailto:morrisog@mail.med.upenn.edu">morrisog@mail.med.upenn.edu</a></p> <p><i>Stanley Goldfarb, M.D.</i> Associate Dean for Curriculum <a href="mailto:Stanley.goldfarb@uphs.upenn.edu">Stanley.goldfarb@uphs.upenn.edu</a></p>	<p><u>Introduction to Clinical Medicine, Biochemistry, and Doctoring</u> (Interviewing and History taking) all discuss nutrition.</p>	<p><u>Integrative Systems and Disease</u> course discusses nutrition in <b>*Cardiology, *Renal, *GI/Nutrition, *Brain/Behavior, *Psychiatry, *Geriatrics, *Pulmonary, *Endocrine, *Reproduction, and *Hematology.</b> Differential diagnosis courses are available. Prevention of diseases related to nutrition is discussed.</p>	<p><u>Medicine, Family Medicine, Surgery, OB/GYN, and Pediatric clerkships</u> all integrate nutrition.</p>	<p><u>Frontiers in Medicine</u> integrates nutrition in the <b>*gastrointestinal</b> and medicine sections. <u>Medicine elective</u> includes nutrition.</p>	<p>None</p>
<p><a href="http://www.med.upenn.edu/admiss/curriculum2.html?1">www.med.upenn.edu/admiss/curriculum2.html?1</a></p>					

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<p><b>University of Texas Medical School</b></p> <p>Contact:</p> <p><i>Allison Ownby, Ph.D., M.Ed.</i></p> <p>Assistant Dean for Faculty and Educational Development</p> <p><a href="mailto:Allison.r.ownby@uth.tmc.edu">Allison.r.ownby@uth.tmc.edu</a></p> <p><i>Marilyn Edwards, R.D. Ph.D.</i></p> <p>Professor of Nutrition</p> <p><a href="mailto:Marilyn.S.Edwards@uth.tmc.edu">Marilyn.S.Edwards@uth.tmc.edu</a></p>	<p><u>Biochemistry</u> includes macronutrients, vitamins, and minerals.</p> <p><u>Developmental Anatomy</u> discusses placentation and folate deficiency in neural tube development.</p> <p><u>Histology</u> includes parietal cells-IF, islet cells-insulin, and intestinal absorption.</p> <p><u>Immunology</u> discusses celiac disease and malabsorption.</p> <p><u>Physiology</u> includes growth and nutrient absorption.</p> <p><u>Introduction to Clinical Medicine</u> discusses taking a <b>*geriatric</b> and comprehensive diet history and health risks of <b>*obesity</b>.</p>	<p><u>Pathology</u> discusses rickets, osteomalacia, <b>*osteoporosis</b>, nutritional <b>*anemias</b>, Fe/B12/folate deficiencies, cystic fibrosis, malabsorption, <b>*diabetes</b>, glucose metabolism, obesity as a risk factor for <b>*CVD</b>, <b>*cancers</b>, <b>*hyperlipidemia</b>, <b>*hypertension</b>, salt, and neuropathology.</p> <p><u>Pharmacology</u> includes vitamins and retinoids, as well as nutrition and AIDS.</p> <p><u>Reproductive Biology</u> discusses nutrition in reproduction.</p> <p><u>Behavioral Science</u> discusses <b>*eating disorders</b>.</p> <p><u>Fundamentals of Clinical Medicine</u> discusses diabetes mellitus, <b>*atherosclerosis</b> and ischemic heart disease.</p> <p><i>Problem-Based Learning cases:</i> obesity, <b>*geriatric nutrition</b>, <b>*renal</b> diet, dialysis diet, diabetes management, complications of chemotherapy, cancer cachexia, HTN salt-restricted diet, pediatric nutritional needs, <b>*failure to thrive</b>, coronary artery disease, adolescent nutrition, calcium, vitamin D, osteoporosis.</p>	<p><u>Family Medicine</u> has a Geriatric Patient handout and discusses cancer guidelines.</p> <p><u>All Clinical Clerkships</u> include Clinical Nutrition and didactic lectures.</p>	<p><u>Required Critical Care</u> includes nutrition requirements for Critical Care Patients.</p> <p><u>Transition to Residency</u> includes Nutrition Assessment and <b>*counseling</b> of patients with chronic diseases (obesity, diabetes, HTN, and CVD) and prescribing <b>*physical activity</b> for healthy lifestyles. A workshop uses NIM modules and short courses.</p> <p>Case study on geriatric failure to thrive.</p>	<p>Gastroenterology/Hepatology Fellowship – Monthly nutrition conference to prepare for Specialty Board (AGA) certification exam</p>
<p><a href="http://med.uth.tmc.edu/administration/edu_programs/medical-education/index.html">http://med.uth.tmc.edu/administration/edu_programs/medical-education/index.html</a></p>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Texas Southwestern Medical Center</b></p> <p><u>Contact:</u></p> <p><i>Steve Cannon, M.D., Ph.D.</i></p> <p>Associate Dean of Undergraduate Medical Education</p> <p><a href="mailto:Steve.cannon@utsouthwestern.edu">Steve.cannon@utsouthwestern.edu</a></p> <p><i>Jo Ann Carson, Ph.D.</i></p> <p>Professor of Clinical Nutrition</p> <p><a href="mailto:Joann.carson@utsouthwestern.edu">Joann.carson@utsouthwestern.edu</a></p>	<p><u>Biochemistry</u> includes macro- and micronutrients, *<b>metabolism</b>, and fad diets. *<b>Diabetes</b>, *<b>obesity</b>, and *<b>atherosclerosis</b> are also covered.</p> <p><u>Physiology</u> covers nutrition in major organ systems. Wellness is discussed in <u>Human Behavior</u> curriculum.</p> <p>An Applied Nutrition Elective is available.</p>	<p><u>Pathology</u> includes Nutritional Deficiency Signs (1 contact hour).</p> <p><u>GI System</u> discusses *<b>hypertension</b> and liver diseases.</p> <p><u>Renal, Urinary and Skeletal Systems</u> discusses calcium and *<b>bone</b> disorders, fluid/plasma potassium, and *<b>renal</b> disorders.</p> <p><u>Cardiovascular system</u> includes *<b>CVD</b> and coronary artery disease. Clinical evaluations of *<b>anemia</b> are learned.</p> <p><u>Endocrine and Reproductive</u> includes diabetes evaluations and complication.</p> <p><u>Neuro-Psychiatric Systems</u> discusses *<b>eating disorders</b>.</p> <p><u>Multisystems</u> discusses food allergies.</p> <p><u>Clinical Medicine</u> curriculum includes pediatric health *<b>assessment</b>, anemia evaluation, and CHD evaluation.</p>	<p><u>Family Medicine, Pediatrics, Ambulatory Care and OB/GYN clerkships</u> include WAVE, obesity and nutrition guidelines, and physical assessments. (3 contact hours).</p> <p><u>Internal Medicine Clerkship</u> includes basic nutrition and diet orders.</p>	<p><u>Ambulatory Care Rotation</u> includes nutrition in Family Medicine, Women’s Health, Cardiovascular health, and nutrition analysis case studies.) (approximately 6 contact hours).</p>	<p>Physician Assistant students have computerized cases for OBGYN and Ambulatory Care. (Approximately 8 contact hours)</p> <p>Lectures on Sports Nutrition and Weight Control for Family Medicine Residents (2 contact hours)</p>
<p><a href="http://www.utsouthwestern.edu/education/medical-school/academics/curriculum/index.html">www.utsouthwestern.edu/education/medical-school/academics/curriculum/index.html</a></p>					

University/ Contact	Year 1	Year 2 and 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Vermont College of Medicine</b></p> <p>Contact:</p> <p><i>Mark Levine, M.D.</i></p> <p>Professor, Department of Medicine</p> <p><a href="mailto:Mark.levine@vtmednet.org">Mark.levine@vtmednet.org</a></p>	<p><u>Foundations</u> course introduces cystic fibrosis. Medical Student Learning Groups (MSLG) address nutrition and environmental health. <u>Clinical Decision Making</u> discusses obesity, alcohol, and nutrition guidelines. <u>Human Structure and Function</u> includes <b>*GI anatomy and pathophysiology</b> and history/physical taking.</p> <p><u>Nutrition, Metabolism, and Gastrointestinal</u> discusses protein metabolism (resting and in <b>*exercise</b>), nutrition recommendations, cystic fibrosis, micronutrients, energy balance, diarrhea, glucose and insulin homeostasis, cholesterol, muscle, liver, brain, and adipose function, iron and calcium metabolism, <b>*osteoporosis</b>, eating disorders, and breastfeeding.</p> <p>4 lectures in <u>Cell and Molecular Biology</u> include metabolism and other nutrition topics.</p> <p><u>Neural Science</u> discusses substance abuse and eating disorders. <u>Cardiovascular, Renal, and Respiratory</u> discusses heart disease, cholesterol, and <b>*hypertension</b>.</p> <p><u>Generations</u> course discusses breastfeeding, <b>*pregnancy</b>, adolescent nutrition and physical activity, and healthy weight promotion.</p> <p><b>*Problem-Based Learning</b> cases on patients with metabolic syndrome, <b>*diabetes</b>, alcoholism, liver disease, and other nutrition issues are included.</p> <p>Students have public health projects involving physical activity in children, long-term care for cancer survivors, and Vermont culture/land use.</p>	<p><u>Bridge Clerkship</u> includes hospital diets and patient nutrition, nutrition guidelines, breast cancer prevention, palliative care, global health context, and herbs and supplements.</p> <p><u>Pediatric Clerkship</u> includes childhood nutrition and iron-deficiency <b>*anemia</b>.</p> <p><u>Surgery Clerkship</u> includes diet management and nutrition assessment in post-op patients.</p> <p><u>Internal Medicine Clerkship</u> includes diet ordering and <b>*dyslipidemia</b>.</p> <p><u>OBGYN Clerkship</u> includes nutrition in pregnancy and diabetes.</p> <p><u>Family Medicine Clerkship</u> includes community health projects focused on nutrition.</p> <p><u>Psychiatry Clerkship</u> includes eating disorders.</p> <p><u>Neurology Clerkship</u> includes post-stroke swallowing assessment.</p> <p><u>Primary Care</u> includes outpatient nutrition. Other topics include overweight management, diet in <b>*cancer</b> prevention, diet in <b>*renal</b> disease, end-of-life nutrition, and CVD prevention.</p>	<p><u>Acting Intern</u> rotations involve writing diet orders, hyperalimentation management, Palliative Care nutrition decisions, and patient diets.</p>	<p><u>Internal Medicine Residency</u> includes prevention and management of <b>*cardiovascular disease</b> (lipids, hypertension, diabetes, <b>obesity</b>).</p> <p><b>*Motivational interviewing</b> training for residents.</p>
<p><a href="http://www.uvm.edu/medicine/mededucation/?Page=level1.html&amp;SM=vic_menu.html">www.uvm.edu/medicine/mededucation/?Page=level1.html&amp;SM=vic_menu.html</a></p>				

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Washington School of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Julianne McNalley, Ph.D.</i> Curriculum Development Manager</p> <p><a href="mailto:jmcnalle@uw.edu">jmcnalle@uw.edu</a></p>	<p>Nutrition is included in <b>*Standardized Patient Exams.</b></p> <p><u>Biochemistry</u> includes mechanisms of macronutrients.</p> <p><u>Nutrition in Developing Countries</u> is offered as a first year elective.</p> <p><u>Sports Medicine</u> elective explores the nutritional needs of athletes.</p>	<p>Core Course includes Standardized Patient Exams, <b>*Pediatric</b>, <b>*Obstetric</b>, and <b>*Geriatric</b> nutrition, and <b>*Diabetes.</b></p> <p><u>Hormones and Nutrients</u> explores the <b>*metabolism</b> of nutrients.</p> <p><u>Hematology</u> explores <b>*blood</b> health and iron status.</p> <p><u>Reproduction</u> discusses the nutritional requirements of the fetus.</p>	<p>Pediatric clerkship</p>	<p>None</p>	<p>None</p>
<p><a href="http://www.uwmedicine.org/Education/MD-Program/Current-Students/Curriculum/Pages/default.aspx">http://www.uwmedicine.org/Education/MD-Program/Current-Students/Curriculum/Pages/default.aspx</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Wisconsin School of Medicine and Public Health</b></p> <p>Contact:</p> <p><i>Cassandra Kight, Ph.D., R.D., CNSC</i></p> <p><a href="mailto:ckight@uwhealth.org">ckight@uwhealth.org</a></p>	<p><u>Comprehensive Human Biochemistry</u> includes structure/function and metabolism of macronutrients, and diagnosis of metabolic diseases.</p> <p><u>Patient, Doctor, and Society</u> involves nutrition assessment.</p> <p><u>Principles of Human Physiology</u> includes digestion, absorption, and storage of nutrients from foodstuffs.</p>	<p><u>Foundations of Medicine</u> integrates nutritional biochemistry and physiology with clinical nutrition, lifecycle nutrition, complications of obesity, and micronutrient deficiencies.</p> <p><u>Integrated Cardiovascular</u> includes nutrition therapy for lipid abnormalities and diet for heart disease and hypertension.</p> <p><u>Integrated Renal</u> includes nutrition in acute and chronic renal disease and dialysis.</p> <p><u>Integrated Neuroscience</u> discusses eating disorders.</p> <p><u>Integrated Gastrointestinal and Hepatic Systems</u> includes nutritional aspects of malabsorption and nutritional management of GI and liver diseases.</p> <p><u>Integrated Endocrine</u> includes nutrition therapy for diabetes.</p> <p><b>*Public Health Integrative Cases:</b> at least once a semester; include nutrition topics such as obesity, pasteurizing milk, etc.</p>	<p><u>Internal Medicine Clerkship</u> involves medical history, including use of supplements and food allergies, blood glucose examinations, and diagnosis and management of myocardial infarction, anemia, and diabetes.</p> <p><u>Pediatric Clerkship</u> includes components and benefits of breast milk vs. formula, nutrition through growth stages, timeline of adding solid foods to infant diets, nutritional assessment and diet recommendations at age 3, causes and management of anemias, factors and implications of childhood obesity, effect of diabetes in pregnancy on the neonate, childhood diabetes, effects of poor infant feeding (i.e. congestive heart failure), interpretation of blood glucose tests, failure to thrive, and nutrition in cystic fibrosis.</p>	None	None
<p><a href="http://www.med.wisc.edu/education/md/curriculum/main/117">http://www.med.wisc.edu/education/md/curriculum/main/117</a></p>					

## Nutrition Topics in American Medical Schools 2013 Curricula

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Boston University School of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Carine Lenders, M.D., M.S., Sc.D.</i> Associate Professor of Pediatrics <a href="mailto:Carine.Lenders@bmc.org">Carine.Lenders@bmc.org</a></p> <p>&amp;</p> <p><i>Kathy Ireland, M.S., R.D., L.D.N.</i> Instructor of Clinical Pediatrics <a href="mailto:Kathy.Ireland@bmc.org">Kathy.Ireland@bmc.org</a></p>	<p><u>Biochemistry</u> includes medical nutrition with a multidisciplinary approach. (6h)</p> <p><u>Physiology</u> includes lectures on appetite regulation, fuel <b>*metabolism</b>, <b>*diabetes</b> and insulinoma. (3.5 h)</p> <p><u>Human Behavior in Medicine</u> includes a lecture on <b>obesity &amp; eating disorders</b>. (1h)</p> <p><u>Intro to Clinical Medicine</u> includes a dietary intake <b>*self-assessment</b> module developed with an <b>*RD</b>. (1 h)</p> <p><u>Integrated Problems</u> covers 3 <b>cases</b> with large nutrition components over a 2- year period (3h).</p>	<p><u>Intro to Clinical Medicine</u> has a seminar on nutrition and <b>cancer</b> taught by an RD (40 minutes).</p> <p><u>Disease &amp; Therapy: Endocrine</u> covers obesity, type 2 diabetes, Syndrome X and popular diets, and modules developed with an RD. (9 h)</p> <p><u>Disease &amp; Therapy: Gastroenterology</u> covers malabsorption and other <b>*GI</b> conditions. (6 h)</p> <p><u>Integrated Problems:</u> has 3 <b>*cases</b> over a 2- year period. (3h)</p>	<p><u>Family Medicine rotation</u> offers <b>*case studies</b> &amp; uses <b>*motivational interviewing</b> techniques. (3h)</p> <p><u>Pediatrics core conference</u> has a lecture series on nutrition needs of <b>*children</b> during growth. (3 h)</p> <p><u>Pediatric Endocrine and neonatal rotations</u> includes work with an RD. (4h)</p> <p><u>OBGYN rotation</u> requires 4 case-based learning topics (e.g. prenatal care, diabetes) and includes a module addressing patients' <b>*nutritional assessment</b> and access to food. (4 h)</p>	<p><u>Nutrition Support in Clinical Practice Elective</u> includes <b>*nutrition support</b> and managing adult obesity.</p> <p><u>Advanced Pediatric Nutrition Elective</u> covers aspects of <b>*breastfeeding</b>, of <b>*childhood obesity</b>, <b>*failure to thrive</b>, community resources, &amp; nutrition support.</p> <p><u>Geriatrics rotation</u> has a lecture and small group discussion on Nutrition in <b>*Elderly</b> and <b>*osteoporosis</b>.</p>	<p><u>Combined BU-Harvard pediatrics residency</u> includes introduction to community nutrition resources and inpatient nutrition.</p> <p><u>Combined BU-Harvard-VA Fellowship Training Program in Endocrinology, Diabetes, and Nutrition</u> includes clinical and research aspects of adult nutrition and obesity.</p> <p><u>Nutrition and Metabolism</u>, is an interdisciplinary graduate program based in the Department of Medicine (MS, PhD).</p> <p><u>Student Nutrition Action and Awareness Council</u> provides extracurricular nutrition-related activities in the medical school, outpatient clinics, and community.</p>
<p><a href="http://www.bumc.bu.edu/admissions/curriculum/">http://www.bumc.bu.edu/admissions/curriculum/</a></p>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Case Western Reserve University School of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Henri Brunengraber, M.D., Ph.D.</i> Department of Nutrition Chair <a href="mailto:hxb8@case.edu">hxb8@case.edu</a></p> <p><i>Colleen Croniger, Ph.D.</i> Co-Director, Dept. of Nutrition <a href="mailto:Cmc6@case.edu">Cmc6@case.edu</a></p>	<p><u>Foundations of Medicine and Health</u> block includes an 11-week section titled, "The Food to Fuel," which provides education on <b>*gastrointestinal</b>, nutrition, energy, metabolism, and <b>*biochemistry</b>, as well as a week-long clinical immersion in these areas.</p>	<p>None</p>	<p>None</p>	<p>Electives: <u>Endocrinology and Hypertension</u> includes evaluation and management of endocrine and metabolic disorders. <u>Clinical Geriatric Medicine</u> allows students to perform health/lifestyle assessments. <u>Pediatric Endocrinology/Metabolism</u> includes examination of metabolic disease, hypothyroidism, and <b>*diabetes</b> in <b>*pediatrics</b>. <u>Pediatric Gastroenterology</u> allows students to examine nutritional problems related to GI diseases.</p>	<p>None</p>
<p><a href="http://casemed.case.edu/admissions/education/up_program.cfm">casemed.case.edu/admissions/education/up_program.cfm</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residenc y and/or nursing)
<p><b>East Tennessee State University School of Medicine</b></p> <p>Contact:</p> <p><i>Kenneth Olive, M.D., FACP</i></p> <p>Executive Associate Dean for Academic and Faculty Affairs</p> <p><a href="mailto:OLIVEK@mail.etsu.edu">OLIVEK@mail.etsu.edu</a></p>	<p><u>Cellular and Molecular Medicine</u> discusses bioenergetics, energy requirement and expenditure, <b>*macro- and micronutrient metabolism</b>, deficiencies, metabolism of fructose and galactose, essential amino acids, nitrogen balance, urea cycle, purine and pyrimidine metabolism, acid-base balance, essential fatty acids, <b>*cholesterol</b> metabolism, <b>*obesity</b>, and metabolic adaptation to starvation.</p> <p><b>*Case Oriented Learning:</b> a case involving folic acid deficiency in prevention of neural tube defects and a case involving the role of diet in managing <b>*diabetes</b> are included.</p> <p><u>Introduction to Physical Exam Skills</u> teaches measurement of BMI and waist circumference.</p> <p><u>Medical Physiology</u> covers nutrition in <b>*GI</b> and Endocrine sections, including nutrient absorption, satiety signals, endocrine regulation of glucose metabolism, and energy homeostasis.</p> <p><u>Medical Genetics</u> discusses diet in phenylketonuria and folic acid in neural tube defects.</p> <p><u>Lifespan Development</u> uses growth charts to assess malnutrition and overweight/obesity in children.</p>	<p><u>Medical Immunology</u> discusses malnutrition in innate and adaptive immune function (vitamin D, vitamin A, and GI immune function).</p> <p><u>Medical Microbiology</u> discusses how normal flora contribute to nutrition (pathogen protection, nutrients, healthy epithelium and immunity) or an unhealthy gastrointestinal tract (pathogen-associated malabsorption and anemias, treatment related issues, malnutrition/infection).</p> <p><u>Clinical Neuroscience</u> discusses mechanisms of food intake regulation, central factors contributing to obesity, the importance of nutrition on brain activity, the role of diet in <b>*atherogenesis</b> (strokes), and prion disease.</p> <p><u>Pathology</u> discusse energy intake, fasting, starvation, energy use in <b>*exercise</b>, the biochemical control of appetite, BMI, skinfold thickness, weight-loss programs, glycemic index, steroids, and supplements (Obesity and Diet unit), protein-energy malnutrition, vitamins and related problems (vitamin D, vitamin K, rickets, osteomalacia, beriberi, Wernicke syndrome, Korsakoff psychosis, Hartnup disease). Minerals (i.e. zinc, iodine), <b>*eating disorders</b>, nutrition implications of environmental injuries and toxins (i.e. metabolic acidosis).</p> <p><u>Intro to Clinical Psychiatry</u> includes malnutrition in eating disorders, the role of nutrition in substance abuse, and the role of nutrition in <b>*geriatric</b> syndromes.</p>	<p><u>Community Medicine Clerkship</u> includes practice in <b>*childhood nutrition</b>, and nutrition in diabetes.</p> <p><u>Family Medicine Clerkship</u> includes practice of nutrition and pneumonia and nutrition and <b>*breastfeeding</b>.</p> <p><u>Surgery Clerkship</u> includes a Sim lab nutrition session.</p>	<p><u>Keystone Course</u> includes an overview of common medical nutrition issues by registered dietitian; TPN; Nutrient-drug interactions.</p>	<p>None</p>
<p><a href="http://www.etsu.edu/com/sa/admissions/collegeinfo/catalog.aspx">http://www.etsu.edu/com/sa/admissions/collegeinfo/catalog.aspx</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g. Residency and/or Nursing)
<p><b>Geisel School of Medicine at Dartmouth University</b></p> <p>Contact:</p> <p><i>Glenda Shoop, Ph.D., M.Ed., RRT.</i></p> <p>Director, Curriculum Development and Evaluation</p> <p><a href="mailto:Glenda.H.Shoop@Dartmouth.edu">Glenda.H.Shoop@Dartmouth.edu</a></p>	<p><u>Metabolism</u> discusses diet in glycogen metabolism and <b>*cholesterol</b> homeostasis. The biochemical and clinical significance of vitamins are discussed. Problem-solving in digestion and hepatic function is reviewed.</p> <p><u>Endocrine Physiology</u> discusses the endocrine control of food intake and energy balance.</p> <p><u>General Pathology</u> discusses diet and spinal malformations.</p> <p><u>Neuroscience</u> discusses high fat diets and the hypothalamus.</p> <p><u>On Doctoring</u> discusses U.S. food insecurity and teaches students to take a social and family history.</p>	<p><u>Themes</u> includes the goals and major nutrition sources for the U.S., <b>*nutritional assessment</b>, and nutrition in major chronic diseases. Nutrition for athletes, including hydration, is discussed. <b>*Lifecycle nutrition</b> is discussed, and students analyze their own diet using web-based tools. A <b>*Pediatrics</b> case study practices nutrition and <b>*parenteral support</b>. A Genetics session discusses nutritional management of metabolic disease.</p> <p><u>Endocrinology</u> includes a <b>*PBL case</b> which addresses fad diets, <b>*diabetes</b> education, dietary therapy to lower lipids, taking a <b>*diet history</b>, evaluating food labels, and explaining micronutrients.</p> <p><u>GI</u> includes nutrition issues in critically ill patients and appropriate feeding plans.</p> <p><u>Cardiovascular</u> has <b>*counseling</b> on risk reduction and behavioral interventions in the Coronary Prevention Project. A PBL case discusses psychosocial issues in <b>*CHD</b>, such as food insecurity.</p> <p><u>Organ-Based Pharmacology</u> discusses nutrition in peak <b>*bone</b> mass.</p>	<p><u>Surgery Clerkship</u> includes Small Group discussion of malnutrition and nutrition in surgery.</p> <p><u>Family Medicine Clerkship</u> practices <b>*nutritional counseling</b>. Cases deal with <b>*obesity</b> prevention and nutritional treatment of high <b>*blood pressure</b>.</p> <p><u>Pediatrics Clerkship</u> includes nutritional assessment in children in an ambulatory setting, as well as preventative counseling in diet.</p>	<p><u>Clinical Pharmacology and Therapeutics</u> discusses drug and nutritional products, such as supplements and herbal preparations, and drug-nutrient interactions are explored.</p>	<p>Endocrinology, Diabetes, and Metabolism Fellowship program.</p> <p>Gastroenterology Fellowship program includes nutritional component.</p>

[Geiselmed.dartmouth.edu/ed\\_programs/mdprog](http://Geiselmed.dartmouth.edu/ed_programs/mdprog)

University/Contact	Year 1	Year 2	Year 3	Year 4
<p><b>George Washington University School of Medicine and Health Sciences</b></p> <p><u>Contact:</u></p> <p><i>Alex Stagnaro-Green, M.D., MHPE</i></p> <p>Senior Associate Dean for Education</p> <p><a href="mailto:alexsg@gwu.edu">alexsg@gwu.edu</a></p>	<p><u>Medical Biochemistry</u> discusses protein deficiencies at the molecular level, and various dietary problems and diseases. A nitrogen metabolism session compares high and low quality proteins.</p>	<p><u>Intro to Clinical Medicine</u> includes an Endocrinology and Diabetes Workshop discussing nutrition therapy in <b>*diabetes</b>. A <b>*geriatrics</b> session involves interventions for common conditions in the elderly, including diet, <b>*osteoporosis</b>, and <b>*hypertension</b>. <u>Microbiology</u> discusses metabolism and nutrient needs of bacterial diseases. <u>Pathology</u> includes CNS nutritional disorders, including Wernicke encephalopathy, Korsakoff psychosis, neuropathic beriberi, and subacute combined degeneration, which are discussed in a small group and addressed in lab. <u>Pharmacology</u> involves projects on herbals and nutritional supplements.</p>	<p><u>Medicine Clerkship</u> includes work with <b>*interdisciplinary</b> professionals. <u>Pediatrics Clerkship</u> involves nutrition guidance and knowledge of feeding options, infant nutrient needs, and management of infant with poor weight gain. Cystic Fibrosis and malnutrition is discussed. Other topics include the timeline for introducing solid foods, <b>*nutritional assessment</b> and diet recommendations. <u>Primary Care Clerkship</u> addresses nutrition therapy, lifestyle modification, <b>*counseling patients</b> and making nutrition decisions, and effectively providing nutrition information. <u>Surgery Clerkship</u> includes caring for a patient with nutritional deficiencies and practicing <b>*parenteral and enteral nutrition</b>.</p>	<p>None</p>

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Michigan State University College of Human Medicine</b></p> <p>Contact:</p> <p>Mary Noel, MPH, Ph.D., R.D.</p> <p>Professor of Family Medicine</p> <p><a href="mailto:Mary.Noel@ht.msu.edu">Mary.Noel@ht.msu.edu</a></p> <p><a href="http://humanmedicine.msu.edu/future/meded_curriculum.php">http://humanmedicine.msu.edu/future/meded_curriculum.php</a></p>	<p><u>Biochemistry</u> includes protein structure and function, carbohydrate/ glucose metabolism, fatty acid and <b>*cholesterol</b> digestion, and micronutrients. <u>Physiology</u> discusses <b>*metabolism</b> of nutrients.</p>	<p><u>Metabolic and Endocrine</u> unit includes <b>*obesity</b> and <b>*diabetes</b>, the <u>Infectious Disease</u> unit includes nutrition in immune system development, the <u>Heme/Oncology</u> unit includes nutrition in <b>*anemia</b> and <b>*cancer</b>, the <u>Digestion</u> unit includes nutrition in the <b>*GI</b> process and vitamin/mineral needs, and the <u>Cardio</u> unit includes nutrition in <b>*heart disease</b>. <b>*PBL</b> cases are included.</p>	<p><u>Family Medicine Clerkship</u> includes weight management and obesity. <u>Pediatric Clerkship</u> includes <b>*childhood nutrition</b>. <u>Ob/Gyn Clerkship</u> includes nutrition during <b>*pregnancy</b>. <u>Internal Medicine Clerkship</u> includes nutrition in various diseases, such as diabetes and cancer.</p>	<p><u>Advanced surgery</u> is a selective choice of TPN</p>	None

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Morehouse School of Medicine</b></p> <p>Contact:</p> <p>Martha Elks, M.D., Ph.D.</p> <p>Senior Associate Dean of Educational Affairs</p> <p><a href="mailto:melks@msm.edu">melks@msm.edu</a></p> <p><a href="http://www.msm.edu/educationTraining/degreePrograms/mdProgram/curriculum.aspx">http://www.msm.edu/educationTraining/degreePrograms/mdProgram/curriculum.aspx</a></p>	<p>Integrated course provides 12 hours of lecture. <u>Community Health</u> includes nutrition in population health. ¼ to ½ of students usually direct their projects towards nutrition-related issues.</p>	<p>Nutrition course required.</p>	<p>All clerkships directly address nutrition with topics including <b>*assessments</b>, nutritional disorders, nutrition as a preventative medicine, nutrition as a management/treatment method.</p>	None	None

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>OHSU School of Medicine</b></p> <p>Contact:</p> <p><i>Tomo Ito, M.S.Ed.</i></p> <p>Curriculum Manager</p> <p><a href="mailto:itot@ohsu.edu">itot@ohsu.edu</a></p>	<p><u>Cell Structure and Function</u> discusses the function of proteins in nutrient transport and <b>*metabolism</b>. Energy and macromolecule metabolism are discussed in depth. <u>Basic Science</u> includes <b>*nutritional assessment</b>, body composition and energy expenditure, micronutrients, dietary prevention of disease, risk factors for <b>*coronary artery disease</b>, nutrition in <b>*pregnancy and lactation</b>, <b>*pediatric</b> nutrition, <b>*geriatric</b> nutrition, calcium, and <b>*diabetes</b>.</p>	<p><u>Metabolism</u> course integrates nutrition with the endocrine and <b>*gastrointestinal</b> systems.</p>	<p><u>Pediatric clerkship</u> allows for clinical experience with <b>*obesity</b>, diabetes, and <b>*eating disorders</b>. <u>Internal Medicine clerkship</u> provides experience with diabetic patients and insulin management. <u>Rural Health clerkship</u> provides experience with diabetes management. <i>Electives (year 3&amp;4):</i></p> <ul style="list-style-type: none"> <li>-Lipid Metabolism/Clinical Nutrition research</li> <li>-Surgical nutrition</li> <li>-Endocrinology/ metabolism electives include diabetes and metabolic disorder management</li> </ul>	<p><u>Pediatric clerkship</u> allows for clinical experience with obesity, diabetes, and eating disorders. Computer module on nutrition. Human Nutrition elective is available.</p>	<p>None</p>
<p><a href="http://www.ohsu.edu/xd/education/schools/school-of-medicine/academic_programs/md-program/curriculum/index.cfm">http://www.ohsu.edu/xd/education/schools/school-of-medicine/academic_programs/md-program/curriculum/index.cfm</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g. Residencies, nursing)
<b>Rutgers New Jersey Medical School</b>  Contact:  <i>Dr. John Bogden, Ph.D., M.S., Sc.B.</i>  <a href="mailto:Jdb264@njms.rutgers.edu">Jdb264@njms.rutgers.edu</a>	<u>Molecular and Genetic Medicine</u> includes <b>*metabolism</b> of macronutrients and nutrition and energy generation.	<u>Disease Processes, Prevention, and Therapeutics (DPPT)</u> Includes nutrition principles and concepts, public health nutrition, dietary recommendations, food insecurity, macronutrients, energy balance, <b>*obesity</b> , clinical <b>*nutrition assessment</b> , vitamins, minerals and trace minerals, micronutrient toxicity, <b>*lifecyle</b> nutrition (children, adolescents, pregnancy, lactation, elderly), nutrition in surgery & in-patients, nutrition <b>*case studies</b> , nutrition in <b>*cancer</b> prevention & treatment, nutrition in <b>*cardiovascular</b> & <b>*renal</b> disease, and a Nutrition Jeopardy Game.	<b>Electives:</b> <u>Gastroenterology</u> includes clinical experience with nutritional evaluation. <u>Neuromuscular and Pulmonary Rehab</u> includes nutritional treatments of neuromuscular and <b>*pulmonary</b> diseases. <u>Ambulatory Family Medicine</u> includes <b>*eating disorders</b> .	<b>Electives:</b> <u>Research in Biochemistry and Molecular Biology</u> involves a project on Vitamin D metabolism. <u>Endocrinology</u> involves clinical experience with <b>*diabetes</b> , and calcium metabolism disorders. <u>Gastroenterology</u> includes diagnosis of digestive diseases and nutritional disorders. <u>Pediatrics</u> involves clinical experience with childhood diabetes and obesity. <u>Preventative cardiology</u> involves nutrition in prevention of CVD.	None

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<b>Southern Illinois University School of Medicine</b>  Contact:  <i>Melissa Buchanan</i>  <a href="mailto:mbuchanan@siu.edu">mbuchanan@siu.edu</a>	Nutrition-related lectures include <b>*eating disorders</b> (1 hour), nutrition (1 hour), clinical nutrition (1 hour), and diet and <b>obesity</b> (1 hour). Students participate in nutrition mini <b>*cases</b> and <b>*self-assessment</b> . Nutrition is tested on the ERG unit exam.	<u>Doctoring</u> includes End of Life Issues and Elder Care.	<u>Surgery Clerkship</u> includes wound healing & burns rounds. <u>OB/GYN Clerkship</u> includes rounds in <b>*diabetes</b> consultation. <u>Internal Medicine Clerkship</u> includes a 1 hour lecture in obesity and diabetes. <u>Pediatrics Clerkship</u> includes a 1-hour lecture on <b>*childhood nutrition</b> and work in a nutrition clinic with a Pediatric Dietitian.	<u>Family and Community Medicine</u> elective has nutrition topics including <b>*breastfeeding</b> , community health practices, emerging trends, family medicine subinternships, issues in minority and women's health care, nutrition basics, teaching skills, and <b>*sports</b> medicine. <u>Pediatrics</u> elective has nutrition topics including breastfeeding and pediatric care. <u>Internal Medicine</u> elective has nutrition topics including endocrinology, diabetes, and <b>*metabolism</b> , <b>*geriatrics</b> , <b>*hematology</b> and <b>*oncology</b> , minority health care, and allergy immunology.	None
<a href="http://www.siu.edu/oec/html/curriculum.htm">http://www.siu.edu/oec/html/curriculum.htm</a>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>SUNY Downstate Medical Center</b></p> <p><u>Contact:</u></p> <p><i>Mariana Markell, M.D.</i></p> <p>Associate Professor of Medicine</p> <p><a href="mailto:Mariana.Markell@downstate.edu">Mariana.Markell@downstate.edu</a></p>	<p>Foundations of Medicine includes two one hour lectures and a self-study of <b>*personal nutrition</b>. Unit 2, <u>Molecules to Cells</u>, addresses energy generation by <b>*metabolism</b> of nutrients, and the impact of nutrition on health and disease. Unit 4 involves the <u>Gastrointestinal, Endocrine, and Reproductive Systems</u> and deals with the uptake of nutrients and nutrition in health and disease, including maternal- fetal nutrition. <b>Diabetes</b> and other metabolic disorders are discussed.</p> <p><b>*Nutrition is one of the three threads taught longitudinally throughout the four years.</b></p>	<p><u>Cardio-renal Respiratory Systems</u> addresses the impact of nutrition on <b>*cardiovascular</b> and <b>*kidney</b> disease. Students are introduced to the DASH diet, and various diets used to treat kidney stones and kidney disease.</p>	<p><u>Medicine, Primary Care, and Surgery Clerkships</u> will use nutrition in evaluation of evidence through Journal Clubs, as well as online learning. <u>Endocrinology Elective</u> discusses the social, cultural, and behavioral aspects of diabetes and <b>*obesity</b>.</p>	<p><u>Clinical Endocrinology and Metabolism Diabetes</u> provides clinical experience in diabetes clinics, as well as opportunity to attend diabetes conferences. <u>Pediatrics Gastroenterology and Nutrition</u> elective deals with the management of <b>*GI</b> disorders. Students perform <b>*nutritional assessments</b> and evaluations.</p>	<p><u>Pediatric Endocrinology Fellowship</u> includes management of diabetes and obesity. <u>Pediatric Gastroenterology 3-year fellowship</u> provides experience with celiac disease and other nutritional issues. <u>Internal Medicine residency</u> includes lectures on dietary requirements, diabetes mellitus and other endocrinologic disorders, the impact of kidney health on diabetes, and food allergies. The PRIME selective provides a diabetes diet class. The MICU rotation requires nutritional assessment of patients.</p>
<p><a href="http://www.downstate.edu/curriculum-renewal/index.html">http://www.downstate.edu/curriculum-renewal/index.html</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Uniformed Services University of Health Sciences</b></p> <p>Contact:</p> <p><i>William Gilliland, M.D.</i></p> <p>Associate Dean for Medical Education</p> <p><a href="mailto:william.gilliland@usuhs.edu">william.gilliland@usuhs.edu</a></p>	<p><u>Gastrointestinal Module</u> includes digestion, absorption, and transport of macronutrients, gluconeogenesis and blood glucose homeostasis, food poisoning, fatty acid synthesis, *<b>cholesterol</b> metabolism, triglyceride synthesis, synthesis of lactose, glycoproteins, and glycolipids, protein-calorie malnutrition, micronutrient deficiencies, supplements, and *<b>obesity</b>. Special topics such as nutritional strategies in military studies, *<b>eating disorders</b>, nutrition and *<b>cancer</b>, and nutrition in special populations (*<b>OB</b> and *<b>geriatrics</b>) are included.</p>	<p><u>Endocrinology and Reproduction</u> module involves *<b>diabetes</b> treatment.</p>	<p><u>Pediatric Clerkship</u> involves nutritional management of patients with growth disorders (i.e. <b>failure to thrive</b>).</p> <p><u>Psychiatry Clerkship</u> includes management of patients with eating disorders.</p> <p><u>Family Medicine Clerkship</u> includes management of patients with diabetes, obesity, and dyslipidemia.</p> <p><u>Internal Medicine Clerkship</u> includes management of patients with diabetes and *<b>hyperlipidemia</b>.</p> <p><u>Ob/Gyn Clerkship</u> includes management of patients with gestational diabetes, nutritional guidance in *<b>pregnancy</b>.</p>	<p>Clinical electives include management of patients with various nutritional disorders, such as diabetes and other metabolic diseases.</p>	<p><u>Pediatric Residency</u> includes rotation in GI/nutrition.</p>

<http://www.usuhs.edu/curriculumreform/newcurriculum.html>

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Arizona College of Medicine</b></p> <p>Contact:</p> <p><i>Darla Anderson, MSLIS</i></p> <p>Medical Education Librarian</p> <p><a href="mailto:darla@medadm.in.arizona.edu">darla@medadm.in.arizona.edu</a></p>	<p><u>Musculoskeletal System</u> discusses effects of normal muscular changes on exercise and nutrition, along with dietary, metabolic, and behavioral factors of <b>*osteoporosis</b>, specifically <b>*eating disorders</b>, deficient calcium, protein, or vitamin D/C/K, and necessary dietary modifications.</p> <p><u>Cardiovascular, Pulmonary, and Renal</u> course discusses dietary sources of fatty acids and effects on <b>*cholesterol</b> metabolism, dietary potassium intake, management of nutritional problems in cystic fibrosis, and dietary factors/management of kidney stones and kidney metabolic disorders.</p> <p><u>Digestion, Metabolism, and Hormones</u> includes energy expenditure and body weight, effects of different hormones on food intake and body weight, diet and colon <b>*cancer</b>, blood glucose homeostasis, and <b>*biochemistry</b> of nutrients.</p> <p><b><u>ELECTIVES</u></b></p> <p>-Global Health Externship: infant and <b>*child nutrition</b> (offered years 1 and 2)</p>	<p><u>Immunity and Infection</u> discusses nutrients in bioactive immune components, populations at risk for nutrition-related immune dysfunction, and dietary supplementation for immune-modulation.</p> <p><u>Life Cycle</u> discusses vulnerable periods of clinically relevant weight gain, in utero exposures and future risk of adiposity, factors influencing weight gain and adiposity in menopause, and aging and <b>obesity</b> prevention.</p> <p><u>Advanced Topics</u> discusses nutritional management of <b>*diabetes</b>, and nutrition in cancer care (effects of cancer treatment, malnutrition in cancer patients, medical nutrition therapy).</p> <p><b><u>ELECTIVES</u></b></p> <p>-Global Health Externship: infant and child nutrition (offered years 1 and 2)</p>	<p><u>Family Medicine Clerkship</u> includes nutrition and exercise in <b>*CVD</b>, functional foods, screening and interventions for overweight/obesity, nutritional considerations for treatment of fatigue and headaches.</p> <p><u>Ob/Gyn Clerkship</u> involves diabetes in <b>*pregnancy</b> and <b>*counseling</b> in periconceptional glycemic control.</p> <p><u>Pediatrics Clerkship</u> involves <b>*failure to thrive</b>, <b>*childhood obesity</b> and nutritional modification needs, risk factors for cardiac disease, infant nutrition, childhood diabetes, and management and causes of diarrhea.</p> <p><u>Surgery Clerkship</u> includes nutritional and fluid requirements for surgical patients, <b>*enteral and parenteral nutrition</b>, and tube feeding.</p> <p><b><u>ELECTIVES</u></b></p> <p>-Pediatric <b>*GI</b> and Nutrition (years 3 and 4)</p>	<p><b><u>ELECTIVES</u></b></p> <p>-Pediatric GI and Nutrition (years 3 and 4)</p> <p>-Global Health Clinical and Community Care: community nutrition.</p> <p>-Prevention and Wellness: nutrition as a preventative medicine tool.</p>	<p>Pediatric Endocrinology Fellowship provides experience with childhood diabetes.</p> <p>Endocrinology/Diabetes fellowship.</p>
<p><a href="http://Medicine.arizona.edu/education/md-program/blocks">Medicine.arizona.edu/education/md-program/blocks</a></p>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of British Columbia Faculty of Medicine</b></p> <p>Contact:</p> <p><i>Santiago Toro-Posada, M.D.</i></p> <p>Curriculum Management Unit</p> <p><a href="mailto:Santiago.toro@ubc.ca">Santiago.toro@ubc.ca</a></p>	<p><u>Principles of Human Biology</u> discusses food availability, pathology of <b>*diabetes</b> and other metabolic disorders, and thiamin deficiency and carbohydrate intake.</p>	<p><u>Clinical Skills and Systems</u> includes nutrition in <b>*GI</b> health, taking nutritional histories of toddlers, and <b>*failure to thrive</b>.</p> <p><u>Doctor/Dentist, Patient, and Society</u> includes <b>*obesity</b> prevention and initiatives.</p> <p><u>Endocrine and Metabolism</u> includes gluconeogenesis, carbohydrate metabolism, insulin pathways, hyperglycemia, diabetes in children, and diabetic ketoacidosis.</p> <p><u>Gastrointestinal</u> includes roles of nutrients, <b>*nutritional assessment</b>, Celiac disease, pancreatic insufficiency, Wernicke’s encephalopathy, vitamins B3, B12, and D deficiencies, <b>*anorexia nervosa</b>, metabolic consequences of starvation, <b>*parenteral and enteral nutrition</b>, energy versus protein malnutrition, role of calcium in GI system, and foodborne illnesses.</p> <p><u>Musculoskeletal and Locomotor</u> discusses vitamin D and calcium in <b>*osteoporosis</b>, and effects of undernutrition or obesity on bone health.</p> <p><u>Nutrition and Growth</u> includes nutritional assessment for early childhood and adolescents, nutrition and learning problems/academic performance, fetal-neonatal needs, eating disorders, nutritional risk factors for adult diseases, poverty and nutrition, childhood obesity, and nutrition throughout the growth stages.</p> <p><u>Reproduction</u> discusses gestational <b>*hypertension</b> and preeclampsia.</p>	<p><u>Internal Medicine Clerkship</u> addresses elderly malnutrition in the <b>*geriatrics</b> rotation. It also addresses sodium disorders.</p> <p><u>Pediatrics Clerkship</u> addresses nutritional needs in childhood (<b>*case studies</b>), pediatric metabolic diseases, and eating disorders.</p> <p><u>Psychiatry Clerkship</u> address the types of eating disorders, Characteristics and Warning Signs, Assessment, Treatment, and Outcomes</p>	<p>None</p>	<p>Not available</p>
<p><a href="http://Mdprogram.med.ubc.ca/program_information/curriculum-educational-programs/schedule-courses/">Mdprogram.med.ubc.ca/program_information/curriculum-educational-programs/schedule-courses/</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of California San Diego School of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Cheryl Rock, Ph.D., R.D.</i></p> <p>Professor, Department of Family and Preventive Medicine</p> <p><a href="mailto:clock@ucsd.edu">clock@ucsd.edu</a></p>	<p><u>Gastroenterology</u> includes 6 hours of nutrition principles, guidelines, and <b>*assessment</b>. <u>Endocrinology, Reproduction, and Metabolism</u> includes 5 hours of nutrition principles, <b>*metabolism</b>, and <b>*obesity</b>. <u>Hematology</u> includes 2 hours discussing nutritional <b>*anemias</b>. <b>*Problem-based learning (PBL)</b> cases involve <b>*gastrointestinal</b> disease, <b>*hypertension</b>, <b>*renal</b> disease, obesity management, <b>*diabetes</b>, and <b>*hyperlipidemia</b>. Clinical Foundations training involves nutritional assessment, <b>*motivational interviewing</b> and behavior change strategies.</p>	<p><u>Gastroenterology</u> includes 4 hours on gastrointestinal disease. <u>Oncology</u> includes 2 hours of <b>*cancer</b> prevention and treatment and current nutrition guidelines in cancer. <u>Cardiovascular System</u> includes 2 hours on nutrition and diet in <b>*CVD</b> and hypertension. <u>Renal</u> includes 2 hours discussing diet and renal disease management.</p>	<p><u>Surgery Clerkship</u> emphasizes immunology and <b>*nutrition support</b>. <u>Pediatrics Clerkship</u> includes practice with nutrient needs, infant feeding, management of malnutrition, and <b>*pediatric nutrition</b> problems. <u>Primary Care Clerkship</u> includes nutrition assessment, consultations, and implementation of behavior change strategies. There is a strong emphasis on obesity management.</p>	<p>None</p>	<p>Nutrition-focused seminars in Preventive Medicine and Family Medicine residency programs.</p>
<p><a href="http://meded.ucsd.edu/index.cfm/ugme/schedules_and_calendars/">http://meded.ucsd.edu/index.cfm/ugme/schedules_and_calendars/</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Central Florida College of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Robert D. Karch, M.D., M.P.H., FAAP</i></p> <p>Director, Division of Hospital Medicine, Nutrition Section</p> <p><a href="mailto:rkarch@nemours.org">rkarch@nemours.org</a></p>	<p><u>Biochemistry and Metabolism</u> discusses the nutritional basis of <b>*metabolism</b>. Students participate in a Patient Encounter involving Cystic Fibrosis. Small Group <b>*Case-Based</b> discussions include <b>*anemias</b> and <b>*diabetes</b> mellitus as topics. The Nutrition in Medicine (NIM) web-based nutrition education tool is used.</p>	<p><u>Practice of Medicine</u> module includes <b>*nutritional assessment and counseling</b>. <u>Cardiopulmonary</u> module includes <b>*dyslipidemia</b> and discussion of lifestyle modification and medical nutrition therapy.</p>	<p><u>Pediatric Clerkship</u> includes participation on <b>*nutrition support</b> inpatient rounds, in the undernutrition/grow clinic, on the <b>*interdisciplinary</b> feeding team, and in the <b>*Pediatric</b> Healthy Choices Ambulatory Clinic. Ambulatory and Inpatient Nutrition Assessment is included in the <u>Pediatric, Internal Medicine, Family Practice, and Surgery Clerkships</u>.</p>	<p><u>Pediatric Clerkship</u> includes participation on the Nutrition Support Service Inpatient rounds, in the Undernutrition/ Grow Clinic, on the Interdisciplinary Feeding Team, and in the Pediatric Healthy Choices Ambulatory Clinic. Nutrition Assessment and Medical Nutrition Therapy is incorporated into clinical clerkships and subinternship rotations.</p>	<p>None</p>

[Med.ucf.edu/academics/md-program](http://Med.ucf.edu/academics/md-program)

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g. Residency and/or nursing)
<p><b>University of Kentucky College of Medicine</b></p> <p>Contact: <i>Marlene Sauer</i> Curriculum Development Director <a href="mailto:Msauer1@email.uky.edu">Msauer1@email.uky.edu</a></p> <p><i>Christopher Feddock, M.D.</i> Assistant Dean for Curriculum <a href="mailto:Chris.feddock@uky.edu">Chris.feddock@uky.edu</a></p>	<p><u>Introduction to Clinical Medicine</u> includes seminars on nutrition and today's health care environment.</p>	<p><u>Gastrointestinal and Nutrition</u> discusses diseases directly related to nutrition (<b>*obesity</b> and <b>*diabetes</b>) and their prevention and management. (37 week course)</p>	<p>None</p>	<p><b>Electives:</b> <u>Geriatrics</u> includes assessing and treating malnutrition in the elderly. <u>Neonatal Pediatric ICU</u> includes <b>*enteral feeding</b>. <u>GI and Nutrition</u> includes diagnosing and managing nutritional disorders, such as <b>*failure to thrive</b>, and analysis of laboratory tests to diagnose nutritional problems. <u>Adolescent Medicine</u> includes practice with <b>*eating disorder</b> management.</p>	<p><u>Pediatrics Residency</u> has neonatal rotation in which residents will have experience with infant feeding.</p>
<p><a href="http://Meded.med.uky.edu/medical-education-curriculum">Meded.med.uky.edu/medical-education-curriculum</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Louisville School of Medicine</b></p> <p><u>Contact:</u></p> <p>Amy Hothouser, M.D.</p> <p>Director, Preclinical Curriculum and Assessment</p> <p><a href="mailto:Amy.hothouser@louisville.edu">Amy.hothouser@louisville.edu</a></p>	<p><u>Intro to Clinical Medicine</u> includes <b>*nutritional assessment</b> based on the USDA Food Guide Pyramid. Medical nutrition therapy, lifestyle modification, and <b>*nutrition counseling</b> is practiced. Students learn the long-term effects of diet, <b>*physical activity</b>, and lifestyle behaviors and recognize the importance of a multi-disciplinary team. Societal and cultural barriers to dietary change are discussed. Other nutrition topics included are over/undernutrition, DASH diet for <b>*HTN</b>, <b>*CVD</b>, <b>*renal</b> disease, nutrition through aging, and the USDA pyramid/US dietary guidelines.</p>	<p><u>Pathology</u> includes common <b>GI</b>/organ diseases and their effects on nutrition health, nutrient digestion and absorption. The impact of <b>*anemias</b>, osteoarthritis, and rheumatoid arthritis on nutrition status is discussed. <b>*Nutrition assessment</b> is practiced. <u>Physiology</u> topics include macronutrients, energy balance, nitrogen balance, and fuel utilization, and <b>*metabolism</b> of nutrients and glucose. <b>*Cholesterol</b> metabolism, atherogenesis, <b>*dyslipidemia</b>, and weight loss are discussed. Insulin resistance, glucose intolerance, <b>*diabetes</b>, and the TLC diet are also included.</p>	<p><u>Pediatric Clerkship</u> includes nutritional benefits of <b>*breast-feeding</b>, <b>*pediatric nutrition</b> assessment and use of CDC growth charts, and recognizing nutritional deficiency. <u>Ob/Gyn Clerkship</u> involves identification of high risk eating patterns in female children and adolescents. The benefits of breast-feeding and recommendations during preconception, pregnancy, and <b>*lactation</b> are discussed. Nutritional assessment in pregnancy is practiced. <u>Family Medicine clerkship</u> includes the benefits of physical activity/detrimental effects of inactivity on metabolism and the CV, musculoskeletal, <b>*pulmonary</b>, and neurological systems. The NHLBI guidelines to classify <b>*obesity</b>/overweight are used, and consequences of overweight (HTN, insulin resistance, dyslipidemia) are discussed. Students practice history taking and nutrition management. <u>Internal Medicine clerkship</u> discusses abdominal obesity, insulin resistance, physical activity, high sodium and alcohol intake on <b>*blood pressure</b>, HTN, diabetes complications and management, and nutritional assessment of diabetic patients.</p>	None	None

<https://netapps.louisville.edu/MECourseCatalog/?id=91>

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of South Carolina School of Medicine</b></p> <p>Contact:</p> <p><i>Lynn Thomas, Dr.PH., R.D.</i></p> <p>Assistant Dean for Preclinical Curriculum, Director of the Nutrition Vertical Curriculum</p> <p><a href="mailto:lynn.thomas@uscmcd.sc.edu">lynn.thomas@uscmcd.sc.edu</a></p>	<p><u>Medical Biochemistry</u> discusses <b>*metabolism</b> of macronutrients and in specific organs. <u>Introduction to Clinical Medicine</u> includes a nutrition overview lecture and 4 <b>*self-study</b> nutrition modules on normal <b>*Pediatric</b>, Adult/<b>*Geriatric</b> nutrition, weight management, and <b>*eating disorders</b>.</p>	<p><u>Introduction to Clinical Medicine</u> includes 3 self-study nutrition readings: <b>*Cancer</b> and AIDS, Stress and <b>*Pulmonary</b>, and Heart Disease and <b>*Hypertension</b>. A Senior Mentor <b>*Nutrition Assessment</b> using UNC-Chapel Hill online nutrition case studies is designed for geriatrics. <u>Preventive Medicine</u> includes lectures on nutrition in public health and 5 self-study readings on Digestive Diseases, <b>*Renal</b>, Hepatic, Pancreatic, <b>*Pregnancy</b> and Women’s Health, <b>*Diabetes Mellitus</b>, and <b>*Enteral/Parenteral nutrition</b>, and a 2-hour lecture on enteral/parenteral nutrition. <u>Pathology</u> includes lectures on <b>*Osteoporosis</b>, Malnutrition, and Vitamin/ Mineral deficiencies.</p>	<p><u>Internal Medicine Clerkship</u> includes history taking and nutritional assessment. <u>Pediatrics Clerkship</u> includes feeding of newborns and inborn errors of metabolism. Clerkships include one required online case study and quiz per clerkship.</p>	<p>Elective Nutrition Research.</p>	<p>One hour lecture in Family Medicine x 10 per year on “Nutrition for the Office Patient.”</p>
<p><a href="http://www.med.sc.edu/md.program.asp">http://www.med.sc.edu/md.program.asp</a></p>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>University of Virginia School of Medicine</b></p> <p><u>Contact:</u></p> <p><i>Donald Innes, Jr., M.D.</i></p> <p>Associate Dean for Undergraduate Medical Education</p> <p>Administrative Assistant: Debra Reed</p> <p><a href="mailto:Dmr5y@cms.mail.virginia.edu">Dmr5y@cms.mail.virginia.edu</a></p>	<p><u>Social Issues in Medicine</u> course includes a Children’s *<b>Fitness</b> Clinic for 3-4 weeks. Students teach a 5-lesson nutrition and wellness class to elementary students in the Kohl’s Growing Up Healthy Program. Students shadow in the clinic.</p> <p><u>GI</u> includes a Celiac case presentation and *<b>TBL</b> on malabsorption.</p> <p><u>Cells to Society</u> course includes a grocery store tour, a *<b>diabetes</b> resource fair, and a diabetes expert panel discussion.</p> <p><u>Mind, Brain, Behavior</u> includes *<b>eating disorders</b>.</p> <p><u>Intro to Micronutrition</u> includes a discussion of malnutrition in the third world. Other topics include hour-long sessions on Intro to Nutrition, PKU patient interview, and malnutrition, and 2-hour sessions on large diet analysis, malabsorption TBL, nutritional supplementation, nutrition disorders of amino acid metabolism, overview of fuel metabolism and bioenergetics, and NIM modules for heart disease and cancer. 2 RDs participate in CPD.</p>	<p><u>AIM Workshop</u> includes an analysis of medical students’ meal selections.</p>	<p><u>Ob/Gyn Clerkship</u> has students observe *<b>nutrition counseling</b> in the Women’s Clinic.</p> <p><u>Internal Medicine Clerkship</u> includes a 30-minute discussion of *<b>renal</b> diet and policies. Nutrition information of patients is discussed based on discussions and encounters during rounds.</p>	<p>Outpatient Nutrition Elective</p>	<p><u>Pediatrics</u>: in-service for residents on infant formulas, NICU nutrition discussion occurs 1-2 times per month (parenteral and enteral feeding). NICU fellows have a 1 hour discussion of NICU parenteral and enteral feeding. Residents and fellows shadow clinicians in the Children’s Fitness Clinic.</p> <p><u>GI</u>: GI fellows attend an annual enteral nutrition lecture and participate in a nutrition rotation.</p> <p><u>Cardiology</u>: one-on-one teaching on cardiovascular health for residents and fellows.</p> <p><u>Ob/Gyn</u>: surgical nutrition lecture for residents.</p> <p><u>Oncology</u>: nutrition lecture for fellows.</p> <p><u>Surgery</u>: Surgical Nutrition/Endoscopy 1-month rotation. Surgical ICU monthly nutrition lecture. Bariatric nutrition and micronutrient deficiency is taught in bariatric clinic.</p> <p><u>Renal</u>: Role of dietitians in CKD clinic and nutrition articles for fellows.</p> <p><u>Diabetes</u>: Resident and fellows group teaching.</p>
<p><a href="http://www.medicine.virginia.edu/education/medical-students/UMEd/nxgen">http://www.medicine.virginia.edu/education/medical-students/UMEd/nxgen</a></p>					

University/Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Washington University School of Medicine in St. Louis</b></p> <p>Contact:</p> <p><i>Heather Hageman, MBA</i></p> <p>Director of Educational Planning and Program Assessment</p> <p><a href="mailto:hagemanh@wustl.edu">hagemanh@wustl.edu</a></p>	<p><u>Cell &amp; Organ Systems Biology</u> discusses nutrition in amino acid <b>*metabolism</b> and urea cycle, <b>*diabetes</b>, inner city medicine, menstruation, and <b>*pulmonary, *renal, *GI, and *endocrinology</b> blocks.</p> <p><u>Immunology</u> includes tumor <b>*immunology</b>.</p> <p><u>Medical Genetics</u> discusses microbiota, pharmacogenomics, and nutrition in epigenetics.</p> <p><u>Practice of Medicine</u> integrates nutrition into public health topics.</p>	<p><u>Cardiovascular</u> pathophysiology. <u>Psychiatry</u> discusses <b>*eating disorders</b>. <u>Endocrinology and Metabolism</u> includes diabetes and hypoglycemia, lipoprotein disorders, and thyroid disorders. <u>Gastrointestinal/ Liver/Nutrition</u> discusses protein-energy malnutrition, diarrhea, malabsorption, pathophysiology and management of <b>*obesity</b>, and micronutrients.</p> <p>Nutrition in <b>*cancer</b> management is included in <u>Hematology and Oncology</u>. <u>Infectious Diseases</u> discusses infectious gastroenteritis.</p> <p><u>OBGYN</u> discusses amenorrhea, nutrition through <b>*pregnancy</b>, gestational diabetes, and preterm deliveries.</p> <p><u>Pathology</u> includes intestinal, esophageal, and heart pathology.</p> <p><u>Pediatrics</u> discusses adolescent care, <b>*failure to thrive</b>, infant and <b>*child nutrition</b>, history taking and physical exam, and newborn screening.</p> <p><b>*Case-based learning</b> is included in <u>Practice of Medicine</u>.</p> <p><u>Renal and Genitourinary Diseases</u> discusses nutrition in kidney function.</p>	<p><u>Medicine Clerkship</u> includes diabetes, <b>*hypertension</b>, and writing up patient progress. <u>Pediatrics Clerkship</u> includes diabetes in pregnancy and infant/child nutrition.</p>	<p><u>Pediatric Gastroenterology, Hepatology, and Nutrition</u> elective. Capstone includes abdominal pain, glycemic control, nephrology, and discharge diet.</p>	<p>None</p>
<p><a href="http://Medadmissions.wustlo.edu/Education/Curriculum/Pages/Curriculum.aspx">Medadmissions.wustlo.edu/Education/Curriculum/Pages/Curriculum.aspx</a></p>					

University/ Contact	Year 1	Year 2	Year 3	Year 4	Others (e.g., Residency and/or nursing)
<p><b>Weill Cornell Medical College</b></p> <p>Contact:</p> <p><i>Caryn Davi, MS</i></p> <p>Clinical Curriculum Director</p> <p><a href="mailto:cad2006@med.cornell.edu">cad2006@med.cornell.edu</a></p>	<p><u>Molecules, Genes, and Cells</u> discusses vitamins, glucose and lipid homeostasis and metabolism, heme, *<b>cholesterol</b> (patient encounter), *<b>obesity</b>, and *<b>diabetes</b> and *<b>metabolism</b>.</p> <p><u>Human Structure</u> discusses absorption of nutrients in the *<b>gastrointestinal</b> system, potassium homeostasis, insulin and glucagon, and calcium metabolism.</p> <p><u>Medicine, Patients, and Society</u> includes metabolic diseases, basic nutrition, *<b>pediatric</b> nutrition; *<b>nutritional assessment</b>, obesity, and *<b>geriatric</b> nutrition.</p> <p>“Lunch and Learn” program lets students discuss nutrition with a *<b>nutritionist</b>.</p>	<p><u>Medicine, Patients, and Society</u> includes nutritional management of disease, *<b>enteral and parenteral nutrition</b>, Bariatric surgery, and fad diets.</p> <p><u>Basis of Disease</u> includes proteinuria, Celiac disease, *<b>osteoporosis</b>, glucose homeostasis, and the pathophysiology of diabetes mellitus.</p>	<p><u>Ob/Gyn Clerkship</u> includes diabetes in *<b>pregnancy</b> and practice in *<b>counseling</b> women in preconception.</p> <p><u>Medicine Clerkship</u> involves ambulatory management of diabetes and osteoporosis.</p> <p><u>Pediatric Clerkship</u> involves understanding a healthy childhood lifestyle.</p>	<p><u>Advanced Biomedical Sciences</u> includes the mechanism of *<b>atherosclerosis</b> and metabolism, obesity (metabolic surgery, glucose homeostasis, new concepts in obesity), and advances in *<b>dyslipidemia</b> therapy.</p> <p><u>Antepartum Fetal Surveillance Elective</u> involves counseling on preconception nutrition.</p> <p><u>Pediatric Gastroenterology</u> includes growth and development issues related to nutritional factors.</p> <p><u>Pediatric Endocrinology</u> includes childhood obesity management, insulin resistance, and *<b>childhood diabetes</b>.</p>	<p>None</p>
<p><a href="http://weill.cornell.edu/education/curriculum/">http://weill.cornell.edu/education/curriculum/</a></p>					