

Medical Physics Educational Curriculum (2021-2022)

Title of Class	Faculty Lecturer
Atomic & Nuclear Structure	Yan Yu
Radioactivity & Nuclear Reactions	Paul Sullivan
Physics of X-Ray Production	Yingxuan Chen
Clinical X-ray, Treatment Machines & X-ray Imaging Devices	Vimal Desai
Radiation Interactions	Yevgeniy Vinogradskiy
Radiation Beam Quality & Dose Concepts	Paul Sullivan
Measurement of Radiation & Dose	Jun Li
System of Photon Dose Calculation	Shuying Wan
Electron Beam Therapy	Hamidreza Nourzadeh
Imaging in RT	Karen Mooney
Simulation, Setup, and Verification	Amy Harrison
2D, 3D CRT, and ICRU conventions	Lei Fu
IMRT and VMAT	Vimal Desai
Quality Assurance	Jun Li
Stereotactic Procedures: SRS, SBRT	Haisong Liu
Brachytherapy I	Reza Taleei
Brachytherapy II	Reza Taleei
Radiopharmaceutical Physics, TBI, TSET	Alex Kubli
Particle Therapy	Christopher Ainsley
Hyperthermia	Shuying Wan
Informatics	Hamidreza Nourzadeh