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M Prutton

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Introduction to Surface Physics. Instructor: Dr. Theodosia Gougousi Office: PH317 Phone: 410 4556874 Email: gougousi@umbc.edu
Office Hours: Tuesday-Thursday: 2:00-3:00 pm or just stop by. Course description. This course will offer a comprehensive introduction to solid surfaces and interfaces focusing mainly on essential concepts. A thorough understanding of the physics and chemistry of surfaces and interfaces is important in fields such as nanoelectronics, catalysis, energy storage and conversion, sensors and corrosion. Topics include: surface crystallography and structure including reconstruction Introduction to surface physics (2 h). The surface as an especially important object for physical investigation. Influence of the surface on physical properties of objects. Clean and covered surfaces. Adsorption and catalysis. What is UHV: Vacuum concepts and UHV hardware. The methods to get clean surfaces. The structure of surfaces. Short overview of modern experimental techniques. Angle resolved photoelectron spectroscopy (ARPES) (4 h).
Physics at Surfaces - Cambridge University Press, 1988, 454 pages, M. Prutton. Introduction to Surface Physics. - Oxford University Press, 1994, 210 pages. Surface and Thin Film Analysis: Principles, Instrumentation, Applications / Edited by H. Bubert and H. Jenett.