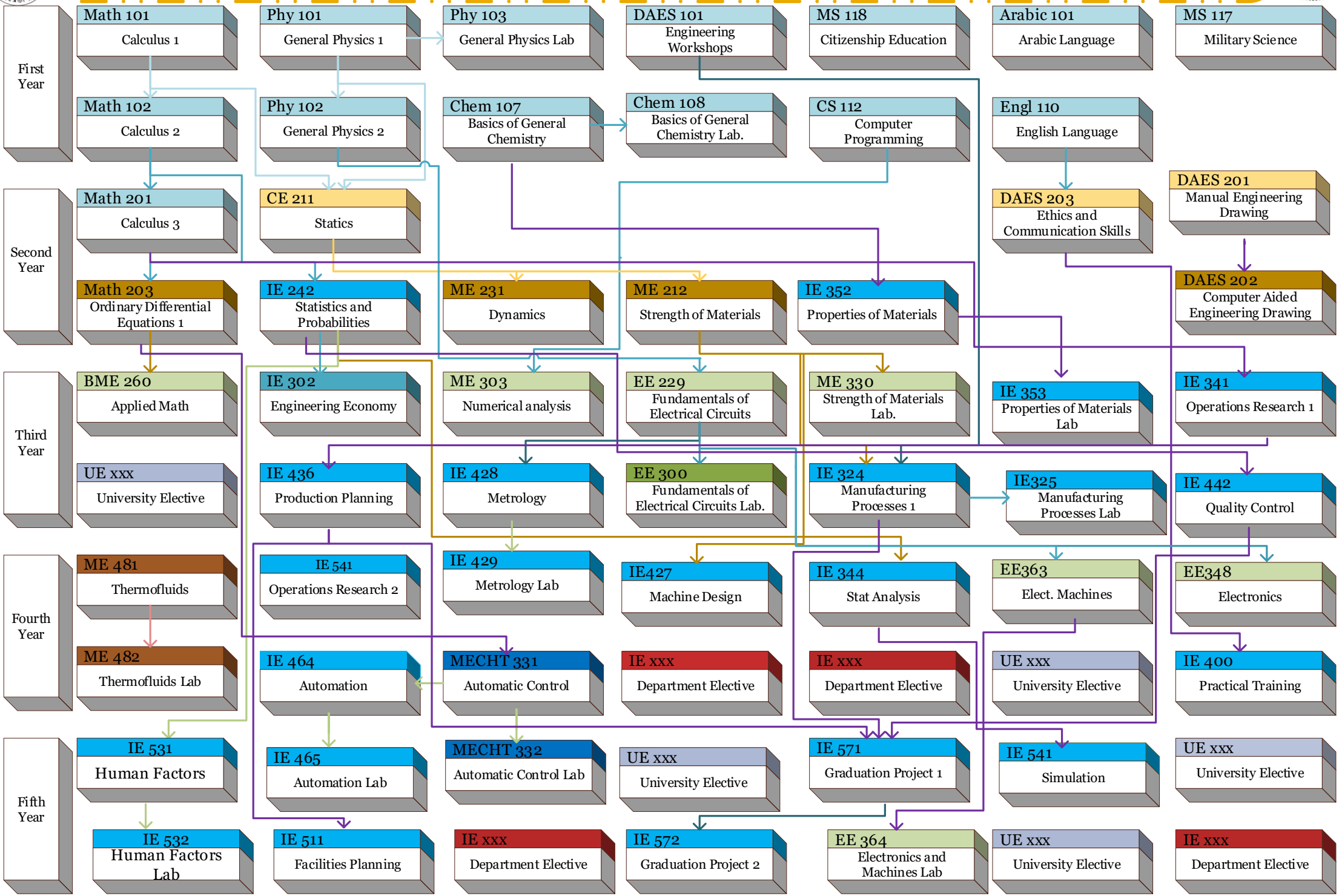Hashemite University – Faculty of Engineering – Industrial Engineering Department