

Table A. Elective Courses for METU-HU Neuroscience and Neurotechnology Program

MIDDLE EAST TECHNOLOGY UNIVERSITY	
GRADUATE SCHOOL OF APPLIED AND NATURAL SCIENCES	
Departments	Courses
BIO	*BIO 716 CELLULAR AND MOLECULAR
	BIO 507 NEUROBIOLOGY
	BIO562 SPECTROSCOPY OF BIOLOGICAL MOLECULES AND MEMBRANES
	BIO 733 NEUROENDOCRINOLOGY
	BIO 704 ADVANCES IN NEUROSCIENCE
CENG	CENG 561 ARTIFICIAL INTELLIGENCE
	CENG 562 MACHINE LEARNING
	CENG 563 COMPUTATIONAL LINGUISTICS
	CENG 564 PATTERN RECOGNITION
	CENG 566 IMAGE PROCESSING
	CENG 569 NEUROCOMPUTING
	CENG 571 NUMERICAL ANALYSIS
	CENG 574 STATISTICAL DATA ANALYSIS
	CENG 576 NUMERICAL METHODS IN OPTIMIZATION
	CENG 582 ADVANCED NEURAL MODELLING
	CENG 583 COMPUTATIONAL VISION
	CENG 585 FUNDAMENTLS OF AUTONOMOUS ROBOTICS
	CENG 740 NEW APPROACHES AND APP. OF PATTERN ANALYSIS
	CENG 777 SHAPE ANALYSIS
CENG 786 ROBOT MOTION PLANNING AND CONTROL	
EE	EE 501 LINEAR SYSTEMS THEORY I
	EE 502 LINEAR SYSTEMS THEORY II
	EE 503 SIGNAL ANALYSIS AND PROCESSING
	EE 504 ADAPTIVE SIGNAL PROCESSİNG
	EE 515 BIOELECTRICITY AND BIOMAGNETISM
	EE 516 BIOMEMS AND BIOSENSORS
	EE 517 THERAPEUTIC AND PROSTHETIC DEVICES IN BIOMEDICAL
	EE 518 PHYSIOLOGICAL CONTROL SYSTEMS ANALYSIS
	EE 519 MEDICAL IMAGING
	EE 531 PROBABILITY AND STOCHASTIC PROCESSES
	EE 543 NEUROCOMPUTERS
	EE 557 ESTIMATION THEORY
	EE 558 SYSTEM IDENTIFICATION AND ADAPTIVE CONTROL NEUROBIOLOGY
	EE 559 INTELLIGENT CONTROL
	EE 583 PATTERN RECOGNITION
	EE 584 MACHINE VISION
	EE 586 ARTIFICIAL INTELLIGENCE

	EE 587 INTRODUCTION TO ROBOTICS
	EE 588 ROBOT HAND: DYNAMICS OF MANIPULATION
	EE 610 INTEGRATED SENSORS AND SENSOR SYSTEMS
	EE 633 DIGITAL SPEECH PROCESSING
	EE 634 DIGITAL IMAGE PROCESSING
	EE 655 CHAOTIC DYNAMICS
	EE 732 PROBABILISTIC GRAPHICAL MODELS
NSNT	*NSNT 501 INTRODUCTION TO COMPUTATIONAL NEUROSCIENCE
	NSNT 502 VISUAL PERCEPTION
Graduate School of Social Sciences	
PSY	PSY 500 RESEARCH METHODS
	PSY 547 PROCESSES AND DISORDERS OF HUMAN COMMUNICATION
	PSY 582 COGNITIVE CONTROL
	PSY 643 CLINICAL PSYCHOPHARMACOLOGY
Institute of Applied Mathematics	
IAM	IAM 561 INTRODUCTION TO SCIENTIFIC COMPUTING I
	IAM 562 INTRODUCTION TO SCIENTIFIC COMPUTING II
	IAM 566 NUMERICAL OPTIMIZATION
	IAM 664 INVERSE PROBLEM
HACETTEPE UNIVERSITY	
INSTITUTE OF NEUROLOGICAL SCIENCES AND PSCHIATRY	
TNB	*TNB 701 BASIC NEUROSCIENCE
	*TNB 731 NEUROPHYSIOPATHOLOGY
	TNB 732 NEURODEGENERATION I
	TNB 733 NEURODEGENERATION II
	*TNB 743 NEUROPHARMACOLOGY
	TNB 751 LABORATORY TECHNIQUES IN NEUROBIOLOGY
	TNB 761 SEMINAR
	TNB 771 LITERATURE SEARCH
	TNB 786 BEHAVIORAL BIOLOGY OF SUBSTANCE DEPENDENCE & ABUSE
	TNB 787 EVALUATION OF COGNITIVE FUNCTIONS
	TNB 788 CONSCIOUSNESS AND DISORDERS OF CONSCIOUSNESS

(*) Those not taken as must courses can be taken as electives.