

# FRONT AND CENTER

UNIVERSITY OF CENTRAL ARKANSAS



## SUMMER SESSIONS 2013



University of  
Central Arkansas™

[uca.edu/summer](http://uca.edu/summer)

# SUMMER SESSIONS 2013

## IMPORTANT PHONE NUMBERS

Admissions	501-450-3128
Advising Center	501-450-5149
Career Center	501-450-3134
Financial Aid	501-450-3140
Graduate School	501-450-3124
Registrar	501-450-5200
Switchboard	501-450-5000

The summer sessions at UCA are the perfect time to cash in some free time and take advantage of an opportunity that could help you get your college degree faster, saving you both time and money.

The summer sessions at UCA mean smaller class sizes and easier parking. You can even catch up on credits.

The summer sessions at UCA are a smart choice with great benefits for all students! Consider this:

- **Attending the summer sessions at UCA can help you graduate on time or even early.**
- **You can get a head start on housing choices.**
- **Summer jobs are available on campus. Check the Career Center bulletin boards located in Bernard Hall or call 501-450-3134.**
- **Financial aid may be available in the summer. Contact the Financial Aid office to inquire about eligibility at [finaid@uca.edu](mailto:finaid@uca.edu) or 501-450-3140.**



## Registration Information

Current UCA students may register through MyUCA and the Banner Self-Service System. Incoming freshmen, transfer and visiting students should contact the Office of Admissions as soon as possible for summer enrollment.

Banner Self-Service (accessible via MyUCA at [my.uca.edu](http://my.uca.edu)) is available for current students to register and make schedule changes (drop/add). A step-by-step guide is available online through the Office of the Registrar: [uca.edu/registrar](http://uca.edu/registrar).

Any changes to the printed schedule are available at [uca.edu/summer](http://uca.edu/summer).

Deadlines for late registration and schedule changes (drop/add) are published in the Academic Calendar at [uca.edu/registrar/academic-calendar](http://uca.edu/registrar/academic-calendar)

Enrollment into a closed class or for more than the allowable maximum number of hours may have to be processed in person at the Office of the Registrar front counter in McCastlain Hall, 8 a.m. to 4:30 p.m., Monday through Friday.

**NOTICE:** To avoid a late payment fee, registration fees must be paid prior to the first class day of any term. Any student who enrolls, but decides not to attend, must notify the university in writing before classes begin for the term in order to avoid a financial obligation for the enrollment. A withdrawal form is available from the Office of the Registrar homepage: [uca.edu/registrar](http://uca.edu/registrar).



# May Intercession

May 13-31

## ACCOUNTING

33290	ACCT 3326	FRAUD EXAMINATION	MOUNCE	COB	201	DAILY	11:00-1:45
32434	ACCT 6319	CORP & SHARERHOLDER TAX	MOUNCE	COB	201	DAILY	8:00-10:45

## ART

30040	ART 1321	DRAWING I	ROSPERT	MAC	114	DAILY	11:00-4:00
30025	ART 2300	ART APPRECIATION	BURCHETT	MCC	143	DAILY	9:00-11:30
33235	ART 4388	ADVANCED STUDIO	ROSPERT			DAILY	

## BIOLOGY

30007	BIOL 3370	INTRO TO NEUROSCIENCE	PADBERG	LSC	100	DAILY	10:00-1:30
30020	BIOL 4311	PATHOPHYSIOLOGY	MARTIN	LSC	102	DAILY	8:00-11:30
30957	BIOL 5311	PATHOPHYSIOLOGY	MARTIN	LSC	102	DAILY	8:00-11:30

## COLLEGE STUDENT PERSONNEL AND ADMINISTRATION

32205	CSPA 6195	THESIS	JAMES				
-------	-----------	--------	-------	--	--	--	--

## EDUCATION

31824	EDUC 3309	CULTURAL PERSPEC: FAMILY	FILER	MASH	203	DAILY	9:00-12:00
30278	EDUC 3320	INTRO TO STRATEGIES	CAIN	MASH	120	DAILY	9:00-12:00

## FAMILY AND CONSUMER SCIENCES

33295	FACS 3372	PERSONAL & FAMILY FINANCE	BENNETT			MTWR	9:00-1:00
-------	-----------	---------------------------	---------	--	--	------	-----------

## FINANCE

30266	FINA 3330	MANAGERIAL FINANCE	FAYMAN	COB	111	DAILY	8:00-10:45
-------	-----------	--------------------	--------	-----	-----	-------	------------

## GEOGRAPHY

31736	GEOG 1305	PRINCIPLES OF GEOGRAPHY	PEARSON	IRB	311	DAILY	9:00-12:00
33171	GEOG 4160	SPECIAL PROBLEMS	PEARSON	ONLINE			
33172	GEOG 4260	SPECIAL PROBLEMS	PEARSON	ONLINE			
33173	GEOG 4360	SPECIAL PROBLEMS	PEARSON	ONLINE			

## HEALTH EDUCATION

31819	H ED 1320	CONC LIFE HEALTH/FITNESS	JAMERSON	DHSC	326	DAILY	9:00-12:00
30421	H ED 2201	FIRST AID	SHELTON	BURD	310	DAILY	8:30-11:30
30400	H ED 3320	EPIDEMIOLOGICAL RESEARCH	JAMERSON	DHSC	325	DAILY	1:00-4:00
33198	H ED 4300	COMMUNITY HEALTH PROBS	HUDSON	DHSC	313	DAILY	8:30-11:30
31244	H SC 3320	LEGAL/ETHICAL ISSUES COUN	RAY	DHSC	325	DAILY	8:00-11:00

## HISTORY

30179	HIST 1310	WORLD HISTORY I	GRAHN	IRB	122	DAILY	1:00-4:00
30206	HIST 2302	AMERICAN NATION II	LITTLE	IRB	122	DAILY	9:00-12:00

## JOURNALISM

32923	JOUR 3305	PUB DESIGN & MAKEUP	WALTER	SRH	112	DAILY	9:00-12:00
32924	JOUR 3308	NEWS EDITING	KEITH	SRH	102	DAILY	9:00-12:00

## KINESIOLOGY & PHYSICAL EDUCATION

33332	KPED 1125	COND: NON KPED MAJORS	HORNOR	PRIN	206	DAILY	9:00-9:50
33333	KPED 1135	BEG WT TRAIN:NON KPED MJRS	HORNOR	PRIN	206	DAILY	10:00-10:50
33334	KPED 1145	BEGINNING WALKING/JOGGING	HORNOR	PRIN	206	DAILY	11:00-11:50
31811	KPED 1320	CONC LIFE HEALTH/FITNESS	MARTINEZ	FC	201	DAILY	9:00-12:00
30563	KPED 3220	MOTOR SKILLS/FIT P-4 LEARN	SESSUM	FC	210	MTWR	9:00-12:00
30566	KPED 4271	WORKSHOP IN KPED:CSCS	STRICKLAND	PRIN	131	MTWR	8:30-11:30
30591	KPED 4363	EVAL/ASSESS ADAPTED PE	WILCOX	FC	210	DAILY	1:00-4:00
30592	KPED 5363	EVAL/ASSESS ADAPTED PE	WILCOX	FC	210	DAILY	1:00-4:00
31623	KPED 5371	SPECIAL TOPICS IN KPED: CSCS	STRICKLAND	PRIN	131	DAILY	8:30-11:30

## LIBRARY MEDIA & INFORMATION TECHNOLOGIES

30954	LIBM 6390	PRACTICUM LIBRARY MEDIA & IT	RICKMAN				
-------	-----------	------------------------------	---------	--	--	--	--

## MASTER OF ARTS IN TEACHING

32230	MAT 5390	PRACTICUM	BUNN	ONLINE			
-------	----------	-----------	------	--------	--	--	--

## MATHEMATICS

32224	MATH 3351	NUMBER SYST FOR K-8 TEACH	PINCHBACK	MCS	211	DAILY	9:00-11:50
-------	-----------	---------------------------	-----------	-----	-----	-------	------------

## MANAGEMENT

30334	MGMT 2301	BUSINESS COMMUNICATIONS	CARSON	COB	214	DAILY	8:00-10:45
30330	MGMT 3346	PERSONNEL/HUMAN RES MGMT	CHAN	COB	311	DAILY	11:00-1:45
30331	MGMT 4347	MANAGING POLICY & STRATEGY	CHAN	COB		DAILY	8:00-10:45

## MANAGEMENT INFORMATION SYSTEMS

33201	MIS 2343	DESKTOP DECISION SPRT TECH	DOWNEY	COB	308	DAILY	8:00-10:45
32507	MIS 3321	MANAGING SYSTEMS & TECH	MCMURTREY	COB	307	DAILY	8:00-10:45

## MARKETING

31892	MKTG 3360	FUND STRATEGIC SELLING	BARTOS	COB	315	DAILY	11:00-1:45
30335	MKTG 3373	PUBLIC RELATIONS	CARSON	COB	308	DAILY	11:00-1:45
30338	MKTG 4370	FUND OF DIRECT MKTG	BARTOS	COB	315	DAILY	8:00-10:45

## MIDDLE/SECONDARY AND INSTUCTIONAL TECHNOLOGIES

30569	MSIT 4305	CLASS & BEHAVIOR MGMT	WARD	MASH	115	DAILY	9:00-11:50
-------	-----------	-----------------------	------	------	-----	-------	------------

## MUSIC

32942	MUS 3251	CNCPT MUS EARLY CHILD EDUC	ROSE	SFAC	316	DAILY	1:00-3:00
-------	----------	----------------------------	------	------	-----	-------	-----------

## PHILOSOPHY

32295	PHIL 2360	GENDER, RACE & CLASS	DUNCAN	HAR	131	DAILY	9:00-12:00
-------	-----------	----------------------	--------	-----	-----	-------	------------

## POLITICAL SCIENCE

33237	PSCI 1330	US GOVERNMENT & POLITICS	HOWARD	IRB	212	DAILY	9:00-12:00
-------	-----------	--------------------------	--------	-----	-----	-------	------------

## QUANTITATIVE METHODS

33163	QMTH2330	BUSINESS STATISTICS	DOWNEY	COB	307	DAILY	11:00-1:45
-------	----------	---------------------	--------	-----	-----	-------	------------

## RELIGION

32302	RELG 1320	WORLD RELIGIONS	SPIVEY	HAR	225	DAILY	9:00-12:00
-------	-----------	-----------------	--------	-----	-----	-------	------------

## SOCIOLOGY

32227	SOC 4395	ISSUE: HOMICIDE VICT & OFFEND	POWERS	IRB	315	DAILY	9:00-12:00
-------	----------	-------------------------------	--------	-----	-----	-------	------------

## SPANISH

31230	SPAN 1310	ELEMENTARY SPANISH I	WILKES	IRB	203	DAILY	1:00-4:00
30228	SPAN 2300	INTERMEDIATE SPANISH	SORENSEN	IRB	205	DAILY	9:00-12:00

## SPEECH

32374	SPCH 1300	BASIC ORAL COMMUNICATION	PHILLIPS	WTH	206	DAILY	9:00-11:45
-------	-----------	--------------------------	----------	-----	-----	-------	------------

## THEATRE

30733	THEA 4322	THEATRE WORKSHOP	BLAKEY	SFAC	217		
30734	THEA 4322	THEATRE WORKSHOP	MEADOR	SFAC	217		



UCA.EDU/SUMMER



# 10 Week Session

June 3 – August 9

## ACCOUNTING

33246 ACCT 2311 PRINCIPLES OF ACCOUNTING II JOHNSON ONLINE

## ART

33268 ART 4675 ART INTERNSHIP YOUNG

## ADVANCED STUDIES IN TEACHER LEADERSHIP

33293 ASTL 6307 METHODS VOC BUSN & MKTG ED WIEDMAIER ONLINE

32237 ASTL 6380 RESEARCH METHODS WIEDMAIER ONLINE

32043 ASTL 6380 RESEARCH METHODS WIEDMAIER ONLINE

## BIOLOGY

33049 BIOL 6101 THESIS ADAMS ONLINE

## COMMUNITY AND ECONOMIC DEVELOPMENT

33245 CED 6335 GRANT WRITING ATKINSON ONLINE

32279 CED 6350 FINANCING COMMUNITY DEV MCCALMAN ONLINE

## COMPUTER SCIENCE

33124 CSCI 3275 INTERNSHIP HU MCS 331 MWF 9:00-9:50

## COMMUNICATION SCIENCES AND DISORDERS

33265 CSD 6101 CLINICAL SEMINAR I MCDANIEL ONLINE

33266 CSD 6280 ADVANCED CLINICAL PRACT I MCDANIEL ONLINE

33267 CSD 6306 ADVANCED INDEPENDENT STUDY ONLINE

33076 CSD 6322 FLUENCY DISORDERS GREGG SLHC 129 MW 8:30-10:25

33262 CSD 6327 PED: FEED/SWALLOW DISORD ADAMS SLHC 129 TR 11:00-12:55

33263 CSD 6329 AUTISM FOR CSD LANCE BURD 208 MW 10:55-12:50

33075 CSD 6341 MOTOR SPEECH DISORDERS LOGAN SLHC 129 TR 8:30-10:25

33264 CSD 6345 LANGUAGE AND LITERACY LANCE BURD 208 TR 1:30-3:25

33272 CSD 7203 RESEARCH PROJECT MCCULLOUGH ONLINE

33273 CSD 7320 DOCTORAL SEMINAR IN LANG MCCULLOUGH ONLINE

33275 CSD 8150 DISSERTATION GREGG

33276 CSD 8150 DISSERTATION MCCULLOUGH

33274 CSD 8150 DISSERTATION LANCE

## EDUCATIONAL LEADERSHIP

32931 EDLP 7130 INTERN DISTRICT LEADERSHIP ALBRITTON TBA TBA TBA TBA

32932 EDLP 7230 INTERN DISTRICT LEADERSHIP ALBRITTON TBA TBA TBA TBA

33257 EDLP 7300 SCHOOL FINANCE TBA TBA TBA W 6:00-9:00

32933 EDLP 7330 INERN DISTRICT LEADERSHIP ALBRITTON TBA TBA TBA TBA

33256 EDLP 7387 ORG CHANGE & DEVELOPMENT PURVIS MASH 323 M 6:00-9:00

## FAMILY AND CONSUMER SCIENCES

32323 FACS 5375 NUTR IN EXERCISE & SPORTS RITCHIE ONLINE

33306 FACS 6331 PARENT CHILD RELATIONS GUINEE ONLINE

## GEOGRAPHY

33225 GEOG 5315 MAPPING FUND FOR GIS BHATTACHARYYA ONLINE

33174 GEOG 5333 GIS FOR PLAN & PUBLIC ADM BHATTACHARYYA ONLINE

33178 GEOG 6190 THESIS RESEARCH BHATTACHARYYA ONLINE

33179 GEOG 6290 THESIS RESEARCH BHATTACHARYYA ONLINE

33185 GEOG 6320 TECHNICAL ISSUES IN GIS BHATTACHARYYA ONLINE

33175 GEOG 6360 DIRECTED READ & RESEARCH BHATTACHARYYA ONLINE

33176 GEOG 6385 GIS GRADUATE PROJECT BHATTACHARYYA ONLINE

33180 GEOG 6390 THESIS RESEARCH BHATTACHARYYA ONLINE

33177 GEOG 6685 GIS GRADUATE PROJECT BHATTACHARYYA ONLINE

## HEALTH EDUCATION

32339 H ED 2200 PERSONAL HEALTH DULAC ONLINE

32340 H ED 2201 FIRST AID DULAC ONLINE

33024 H ED 3120 PREVENTION PRACTICUM RAY DHSC 317

32800 H ED 4312 DRUG EDUCATION MORRIS ONLINE

32799 H ED 4343 HEALTH STRAT MULTI POP GILBREATH ONLINE

33187 H ED 4600 HEALTH SCIENCES INTERNSHIP FOX DHSC 317

32882 H ED 4600 HEALTH SCIENCES INTERNSHIP RAY DHSC 317

32341 H ED 5306 HEALTH LITERACY RAINEY ONLINE

33279 H ED 6353 ISSUES & RES IN SEXUALITY HUBBARD ONLINE

32585 H ED 6371 DIRECTED IND STUDY FOX DHSC 317

33189 H ED 3305 HUMAN SEXUALITY ONLINE

33190 H ED 4302 HEALTH ED IN THE WORKSITE ONLINE

33191 H ED 4303 ENVIRO HEALTH PROBLEMS ONLINE

33192 H ED 4312 DRUG EDUCATION ONLINE

33193 H ED 4331 PROGRAM PLANNING AND EVAL ONLINE



## GET YOUR DEGREE FASTER

Taking just one summer class  
gets you one step  
closer to graduation.



# 10 Week Session

June 3– August 9

## HEALTH EDUCATION (CONTINUED)

33194	H ED 4343	HEALTH STRAT FOR MULTICULTURAL POP		ONLINE		
33195	H ED 4395	CONTEMP HEALTH CONCERNS: WOMEN		ONLINE		
33196	H ED 5302	HEALTH ED IN THE WORKSITE		ONLINE		
33197	H ED 5331	HEALTH ED PROGRAM PLAN & EVAL		ONLINE		
33202	H ED 5343	HEALTH STRAT FOR MULTICULTURAL POP		ONLINE		
33203	H ED 5350	HEALTH ED IN ELEMENTARY SCHOOLS		ONLINE		
33204	H ED 5352	HEALTH ED IN SECONDARY SCHOOLS		ONLINE		
33205	H ED 5370	ADMIN OF HEALTH PROGRAMS		ONLINE		
33206	H ED 6310	HEALTH ED CURRIC & INSTRUCTION		ONLINE		
33207	H ED 6321	FOUNDATIONS OF HEALTH ED		ONLINE		
33208	H ED 6345	DRUG ED & PREVENTION		ONLINE		

## HEALTH SCIENCES

32883	H SC 4610	PRACT IN SUBSTANCE ABUSE	RAY	DHSC 317		
32342	H SC 5305	TECH APPS IN HEALTH SCI	MORRIS	ONLINE		
33118	H SC 6190	THESIS RESEARCH II	FOX	DHSC 317		
32343	H SC 6335	GRANT WRITING	HUDSON	ONLINE		

## INSTRUCTIONAL TECHNOLOGY

32902	ITEC 6350	INSTRUCTIONAL DESIGN	HU	ONLINE	M	5:00-8:30
-------	-----------	----------------------	----	--------	---	-----------

## LEADERSHIP

33278	LEAD 6330	INDIV/GROUP COUNS IN ED	HALLFORD		R	9:00-12:30
33365	LEAD 8352	ADV SCHOOL LAW	PURVIS	MASH 232	M	8:00-5:00
				CLASSES MEET JUNE 24-28		

## LIBRARY MEDIA & INFORMATION TECHNOLOGIES

32899	LIBM 6330	REFERENCE SERVICES	LEBEAU-FORD	LIB	R	9:00-4:00
32900	LIBM 6332	CAT & CLASS I	COPELAND	MASH 232	T	9:00-4:00

## MATHEMATICS

33287	MATH 1491	APPLIED CALC FOR LIFE SCI	LIU	MCS 111	DAILY	11:20-12:50
33240	MATH 1496	CACULUS I	CARMACK	MCS 213	MTWR	1:00-2:30

## MATHEMATICS (CONTINUED)

33242	MATH 1497	CALCULUS II	ARRIGO	MCS 110	MTWR	11:20-12:50
33244	MATH 2471	CALCULUS III	BURG	MCS 220	MTWR	1:00-2:30

## MEDICAL TECHNOLOGY

30178	MD T 4111	IMMUNOLOGY	KYLE	ONLINE		
30180	MD T 4122	BODY FLUIDS	KYLE	ONLINE		
30181	MD T 4410	CLINICAL MICROBIOLOGY	KYLE	ONLINE		
30183	MD T 4413	CLINICAL CHEMISTRY	KYLE	ONLINE		
30185	MD T 4423	HEMATOLOGY	KYLE	ONLINE		

## NUCLEAR MEDICINE TECHNOLOGY

30186	NMT 4210	PRACTICUM I	WARD	ONLINE		
30188	NMT 4415	PATIENT CARE	WARD	ONLINE		
30190	NMT 4420	NUCLEAR PHYS/RADIOCHEM	WARD	ONLINE		

## NUTRITION

33323	NUTR 6330	METABOLIC NURTITION	ROOFE	ONLINE		
-------	-----------	---------------------	-------	--------	--	--

## PHILOSOPHY

33132	PHIL 4350	HEALTH CARE ETHICS	HELD	PTC	TBA	TBA	TBA
32304	PHIL 5350	HEALTH CARE ETHICS	HELD	PTC	TBA	TBA	TBA

## SCHOOL COUNSELING

33277	SCCN 6330	MULTICULTURAL COUNSELING	HALLFORD		T	9:00-12:30
-------	-----------	--------------------------	----------	--	---	------------

## SCHOOL LEADERSHIP, MANAGEMENT & ADMINISTRATION

32165	SLMA 6320	SCHOOL LAW	PURVIS	MASH 232	M	8:00-5:00
				MEETS JUNE 24-JUNE 28		

32393	SMLA 6362	INTERN FOR CURRIC ADMIN	WEBSTER-SMITH	TBA	TBA	TBA	TBA
-------	-----------	-------------------------	---------------	-----	-----	-----	-----

32391	SMLA 6430	CURR. & PROGRAM LEADERSHIP	MCCLELLAN	TBA	TBA	M	6:00-9:00
-------	-----------	----------------------------	-----------	-----	-----	---	-----------

30095	SMLA 6460	COLLAB SCH LEADERSHIP	WEBSTER-SMITH	TBA	TBA	W	6:00-9:00
-------	-----------	-----------------------	---------------	-----	-----	---	-----------

## SOCIOLOGY

30114	SOC 4370	INTERNSHIP IN SOCIOLOGY	WILSON	IRB	306F	TBA	TBA
-------	----------	-------------------------	--------	-----	------	-----	-----



## SUMMER SESSION DATES

ADVANCE REGISTRATION: APRIL 1-22

MAY INTERSESSION: MAY 13 – MAY 31

10-WEEK SUMMER SESSION: JUNE 3 – AUGUST 9

SUMMER I SESSION: JUNE 3 – JULY 5

SUMMER II SESSION: JULY 8 – AUGUST 9



# Summer I Session

July 3 – July 5

## ACCOUNTING

30396	ACCT 2310	PRINCIPLES OF ACCOUNTING I		COB	206	DAILY	8:00-9:30
32885	ACCT 3311	INTERMEDIATE ACCOUNTING I	MOORE	COB	201	DAILY	11:20-12:50
32790	ACCT 3312	INTERMEDIATE ACCOUNTING II	MOORE	COB	201	DAILY	9:40-11:10
30436	ACCT 3320	ACCOUNTING INFO SYSTEMS	WATSON	COB	206	DAILY	11:20-12:50
33254	ACCT 4304	GOVERNMENT/NONPROFIT ACCT	MCKNIGHT	COB	206	DAILY	9:40-11:10
33255	ACCT 6304	ADVANCED GOV/NONPROFIT	MCKNIGHT	COB	206	DAILY	9:40-11:10
32385	ACCT 6340	SEMINAR ACCT CASE STUDIES	WATSON	COB	201	MWF	2:00-4:45

## ART

30032	ART 1310	2-D DESIGN	OGAR	MAC	404	DAILY	11:20-2:30
32887	ART 3332	PAINTING I	LUCKETT	SSA	109	MTW	10:00-3:30
30028	ART 3353	GRAPHIC DESIGN I	OGAR	MAC	403	DAILY	8:00-11:10
32888	ART 4388	ADVANCED STUDIO	LUCKETT	SSA	109	DAILY	
31298	ART 4388	ADVANCED STUDIO	OGAR	MAC	403	DAILY	
30933	ART 4675	ART INTERNSHIP	YOUNG				

## ADVANCED STUDIES IN TEACHER LEADERSHIP

33128	ASTL 6305	CLASSROOM ASSESSMENT	ALEA	ONLINE			
-------	-----------	----------------------	------	--------	--	--	--

## BIOLOGY

30022	BIOL 1400	BIO GEN ED: CORE CONCEPTS LAB	BLAND	LSC	102	MWF	9:00-12:10
				LSC	126	TR	9:00-11:00
30041	BIOL 1440	PRIN OF BIOLOGY I LAB	KARAFIT	LSC	100	MWF	9:00-12:10
				LSC	144	TR	9:00-12:00
30045	BIOL 2405	HUMAN ANATOMY & PHYS LAB	MARTIN	LSC	172	MWF	8:00-11:10
				LSC	191	TR	8:00-11:10
30065	BIOL 2406	STRUCT/FUNCT HUMAN BODY I LAB	WAINWRIGHT	DHSC	232	MWF	8:00-11:10
				LSC	138	TR	8:00-11:10
30119	BIOL 2411	MICROBIO IN HUMAN AFFAIRS LAB	GOMEZ-KRAMER	DHSC	326	MWF	8:00-11:10
				LSC	137	TR	8:00-11:10
30223	BIOL 3403	GENERAL ECOLOGY LAB	ADAMS	LSC	25	MW	8:00-12:00
				LSC	25	TR	8:00-12:00

## BUSINESS

33289	MBA 5380	BUSINESS INTELLIGENCE	BARTCZAK	COB	302	DAILY	11:20-12:50
30490	MBA 6301	DECISION MODEL IN INFO SYS	ZELTMANN	COB	302	ONLINE	
30492	MBA 6303	MANAGERIAL ECONOMICS	CAMPBELL	COB	214	MW	2:00-6:00

## CHEMISTRY

30013	CHEM1402	GEN CHEM FOR HEALTH SCI LAB	WEAVER	LAN	102	DAILY	10:30-12:00
				LAN	202	MTWR	1:00-2:50
30014	CHEM1450	COLLEGE CHEMISTRY I LAB	DESROCHERS	LAN	104	DAILY	8:00-9:30
				LAN	206	MTWR	9:40-12:30
30015	CHEM2401	ORGANIC CHEMISTRY I LAB	CARTER	LAN	103	DAILY	8:00-9:30
				LAN	306	MTWR	1:00-3:50
32929	CHEM2401	ORGANIC CHEMISTRY I LAB	TARKKA	LAN	105	DAILY	10:30-12:00
				LAN	306	MTWR	1:00-3:50
32291	CHEM2450	INTRO TO ORGANIC & BIOCHEM LAB	ISOM	LAN	102	DAILY	8:00-9:30
				LAN	202	MTWR	9:40-11:30

## COMPUTER SCIENCE

31971	CSCI 1300	INTRO COMPUTING	SMITH	MCS	339	DAILY	9:40-11:10
-------	-----------	-----------------	-------	-----	-----	-------	------------

## COMMUNICATION SCIENCES AND DISORDERS

33260	CSD 2306	NEUROSCIENCE FOR COMM	MCCULLOUGH	SLHC	111	DAILY	9:40-11:10
33261	CSD 2322	APPLIED PHONETICS	MOSS-LOGAN	SLHC	111	DAILY	8:00-9:30

## ECONOMICS

33121	ECON2310	GLOBAL ENVIR OF BUSINESS	CAMPBELL	COB	111	DAILY	9:40-11:10
32298	ECON2320	PRINCIPLES OF MACROECO	MITCHELL	ONLINE			
32299	ECON2321	PRINCIPLES OF MICROECO	SNYDER	ONLINE			
32301	ECON3330	ENVIRONMENTAL ECONOMICS	SNYDER	ONLINE			
33122	ECON3335	ECONOMETRICS	MITCHELL	COB	100	DAILY	9:40-11:10

## EARLY CHILDHOOD & SPECIAL EDUCATION

32312	ECSE 6302	MED & ED - DISABILITIES	PEARSON	ONLINE			
							MEETS JUNE 10-JULY 5
32317	ECSE 6304	BEHAVIOR & CLASSROOM MGMT	PEARSON	ONLINE			
							MEETS JUNE 10-JULY 5
32344	ECSE 6343	PRACTICUM READING I (EARLY)	OSLICK	MASH	120	DAILY	9:00-11:29
							MEETS JUNE 10-JULY 5
32345	ECSE 6344	PRACTICUM READING II (MID)	OSLICK	MASH	120	DAILY	11:30-2:00
							MEETS JUNE 10-JULY 5
32314	ECSE 6366	ED PROG - MILD DISABILITIES	KOHLER	ONLINE			
							MEETS JUNE 10-JULY 5
30295	ECSE 6370	LAB PRACT FOR IND WITH DIS	DALLAS	ONLINE			

## THE PERFECT TIME

Summer Sessions at UCA are the perfect time to take advantage of an opportunity that could help you get your college degree faster, saving you both time and money.



## Summer I Session continued

### EDUCATION

32807	EDUC 1240	BASIC EDUC TECH SKILLS	MILLS	MASH 107	MW	1:00-3:00
30593	EDUC 1300	EDUCATION AS A PROFESSION	WARD	MASH 234	MW	9:00-11:50
30286	EDUC 3321	INTRO TO STRATEGIES	BARRINGTON	MASH 203	TWRF	1:00-3:30
33025	EDUC 5353	AESTHETIC EDUCATION	DAVEY	ONLINE		

### ENGLISH

32793	ENGL 1355	FILM AND LITERATURE	STENGEL	IRB 304	DAILY	1:00-2:30
30156	ENGL 2305	WORLD LITERATURE I	ANDERSON	IRB 303	DAILY	1:00-2:30
30152	ENGL 2306	WORLD LITERATURE II		IRB 313	DAILY	9:40-11:10
32795	ENGL 4335	SENIOR SEMINAR	GAUGHAN	IRB 304	DAILY	9:40-11:10
33269	ENGL 6301	SEMINAR: ENGL MEDIEVAL LIT	RUUD	IRB 304	DAILY	8:00-9:30

### FAMILY & CONSUMER SCIENCES

32325	FACS 2341	LIFESPAN DEVELOPMENT	GUINEE	ONLINE		
32336	FACS 3311	RESOURCE MANAGEMENT	SNYDER	ONLINE		

### FILM

31291	FILM 2300	FILM APPRECIATION	HUTCHINSON	SRH 103	DAILY	11:20-12:50
30433	FILM 2310	SCRIPT ANALYSIS	HUTCHINSON	SRH 108	DAILY	9:40-11:10

### FINANCE

30218	FINA 3330	MANAGERIAL FINANCE	FAYMAN	COB 111	DAILY	8:00-9:30
33123	FINA 4336	FINANCIAL MANAGEMENT	FAYMAN	COB 111	DAILY	11:20-12:50

### GEOGRAPHY

33181	GEOG 1320	INTRO TO HUMAN GEOGRAPHY	OCONNELL	IRB 311	DAILY	9:40-11:10
31221	GEOG 3399	INTERNSHIP	ALLENDER	IRB		
31006	GEOG 3699	INTERNSHIP	ALLENDER	IRB		
32006	GEOG 4160	SPECIAL PROBLEMS	OCONNELL	IRB		
32271	GEOG 4260	SPECIAL PROBLEMS	OCONNELL	IRB		
32091	GEOG 4360	SPECIAL PROBLEMS	OCONNELL	IRB		

### HEALTH EDUCATION

32322	H ED 2320	MENTAL HEALTH	GILBREATH	ONLINE		
31745	H ED 3300	HEALTH ED METHODS & MAT	HUBBARD	DHSC 325	DAILY	11:20-12:50
33199	H ED 3305	HUMAN SEXUALITY	MARSHALL	DHSC 325	DAILY	9:40-11:10
33200	H ED 4331	PROGRAM PLANNING & EVAL	MARSHALL	MCS 214	DAILY	8:00-9:30

### HEALTH SCIENCES

30370	H SC 3123	MEDICAL TERMINOLOGY	FOX	DHSC 325	M	2:00-3:00
-------	-----------	---------------------	-----	----------	---	-----------

### HISTORY

32066	HIST 1310	WORLD HISTORY I	O'HARA	IRB 215	DAILY	8:00-9:30
31192	HIST 1320	WORLD HISTORY II	CARTER	IRB 102	DAILY	9:40-11:10
30184	HIST 2301	AMERICAN NATION I	FOSTER	IRB 122	MTWR	1:00-3:00
30191	HIST 4300	SEMINAR	ROSENOW	IRB 116	DAILY	8:00-9:30
33134	HIST 4370	EUROPE 1815-1914	PAULY	IRB 122	DAILY	9:40-11:10
33135	HIST 5370	EUROPE 1815-1914	PAULY	IRB 122	DAILY	9:40-11:10

### INSTRUCTIONAL TECHNOLOGY

32407	ITEC 6315	DISTANCE ED COURSE DDI & E	HUFFMAN		TR	1:00-4:30
32903	ITEC 6340	DESIGN/PROD MEDIA RES I	HU		MW	9:00-12:30
32410	ITEC 6354	MULTIMEDIA	STONE		MW	1:00-4:30
32894	ITEC 6360	INTELLECT PROP & COPYRIGHT	COPELAND		TR	5:00-8:30

### KINESIOLOGY & PHYSICAL EDUCATION

32939	KPED 1121	BEGINNING TENNIS	BORENGASSER	FC 210	MTW	8:15-9:15
33331	KPED 1124	BEGINNING VOLLEYBALL	NEWBERRY	PRIN 205	MTW	11:20-12:20
33330	KPED 1291	PRINCIPLES OF LIFETIME FIT	BORENGASSER	FC 210	MTWR	9:40-11:10
30572	KPED 2226	TEACHING VBALL/TRACK/FIELD	NEWBERRY	PRIN 205	MTWR	11:20-12:50
31983	KPED 2381	ANATOMICAL KINESIOLOGY	BRUENGER	FC 200	DAILY	8:00-9:30
30579	KPED 3331	CARE/PREV EXER/SPORTS INJ	CRAWFORD	FC 201	DAILY	9:40-11:10



## FINANCIAL AID

Financial Aid  
may be available  
for qualified students.

[uca.edu/summer](http://uca.edu/summer)

### KINESIOLOGY & PHYSICAL EDUCATION (CONTINUED)

30598	KPED 4300	EXERCISE PHYSIOLOGY	GALLAGHER	FC 200	DAILY	11:20-12:50
30580	KPED 5331	CARE/PREV EXER/SPORTS INJ	CRAWFORD	FC 201	DAILY	9:40-11:10

### LEADERSHIP

33249	LEAD 6321	RESEARCH METHODS	COPELAND	ONLINE	TR	1:00-4:30
-------	-----------	------------------	----------	--------	----	-----------

### LIBRARY MEDIA & INFORMATION TECHNOLOGIES

32408	LIBM 6353	TEACHING & LEARNING IN SLMC	HUFFMAN	ONLINE	MW	5:00-8:30
32414	LIBM 6370	ISSUES AND TRENDS IN CHILD LIT	WHITTINGHAM	ONLINE	MW	9:00-12:30
32908	LIBM 6380	ADMIN OF INFO PROGS	HUFFMAN	ONLINE	MW	1:00-4:30
31354	LIBM 6390	PRACT LIBRARY MEDIA & IT	RICKMAN			
33251	LIBM 6390	PRACT LIBRARY MEDIA & IT	RICKMAN			

### MASTER OF ARTS IN TEACHING

31710	MAT 5303	MID SCHOOL PSYCH PHIL & ORG	COTABISH	ONLINE		
31705	MAT 5310	ANALYSIS/PRACT OF TEACH	WAKE	MASH 115	TR	5:00-9:00
31706	MAT 5320	THEORY/PRACT CLASSMGMT	MILLS	MASH 234	MW	5:00-9:00
32901	MAT 6310	PEDAGOGY DIVERSE STDNT POP	HOGAN	MASH 234	TR	5:00-9:00
32232	MAT 6311	CLASSROOM ASSESSMENT	ALEA	ONLINE		
32805	MAT 6312	PRIN CHILD & ADOLESCENT DEV	FISHER	ONLINE		
32233	MAT 6312	PRIN CHILD & ADOLESCENT DEV	FISHER	ONLINE		
31707	MAT 6314	READING DIFFICULTIES	HART	MASH 233	TR	5:00-9:00
31708	MAT 6320	LITERACY SEM FOR TEACHERS	WAKE	MASH 115	MW	5:00-9:00
32957	MAT 6338	ADV INSTR/ASSESS-YC	COTABISH	MASH 231	TR	5:00-9:00

### MATHEMATICS

31823	MATH 1360	QUANTITATIVE LITERACY	PACHLHOFFER	MCS 213	DAILY	9:40-11:10
32766	MATH 1390	COLLEGE ALGEBRA	MOORE	MCS 111	DAILY	1:00-2:30
30081	MATH 1390	COLLEGE ALGEBRA	YE	MCS 213	DAILY	11:20-12:50
30084	MATH 1395	APPLIED CALC BUSINESS/ECON	MCGEHEE	MCS 219	DAILY	1:00-2:30
30086	MATH 2311	STATISTICAL METHODS I	BRATTON	MCS 220	DAILY	8:00-9:30
32254	MATH 2335	TRANSITION TO ADVANCE MATH	LE	MCS 219	DAILY	9:40-11:10
30088	MATH 3320	LINEAR ALGEBRA & MATRICES	HICKLING	MCS 220	DAILY	11:20-12:50
32225	MATH 4310	TOPICS IN MATH EARLY CHILD	PINCHBACK	MCS 211	DAILY	11:20-12:50
32811	MATH 4371	INTRO TO PROBABILITY THEORY	BRATTON	MCS 219	DAILY	11:20-12:50
32812	MATH 5371	INTRO TO PROBABILITY THEORY	BRATTON	MCS 219	DAILY	11:20-12:50
32257	MATH 6350	MODERN GEOMETRY	MCGEHEE	MCS 214	DAILY	9:40-11:10
30091	MATH 6370	DIFF CALC FOR TEACHERS	HICKLING	MCS 104	DAILY	8:00-9:30

## Summer I Session continued

### MANAGEMENT

30481	MGMT2301	BUSINESS COMMUNICATIONS	GATLIN-WATTS	ONLINE			
30480	MGMT3315	DIV/MULTICULTURAL COMM	GATLIN-WATTS	ONLINE			
32307	MGMT3340	MANAGING PEOPLE & WORK	ISANHART	ONLINE			
30477	MGMT3344	MANAGING PRODUCTION/OP	ISANHART	ONLINE			

### MANAGEMENT INFORMATION SYSTEMS

33164	MIS 2343	DESKTOP DEC SUPPORT TECH	SMITH	ONLINE			
32502	MIS 3321	MANAGING SYST& TECH	MCGAUGHEY	ONLINE			
30292	MIS 3321	MANAGING SYST & TECH	BARTCZAK	COB 302	DAILY	9:40-11:10	
32501	MIS 4380	BUSINESS INTELLIGENCE	BARTCZAK	COB 302	DAILY	11:20-12:50	

### MARKETING

30465	MKTG3350	PRINCIPLES OF MARKETING	FISHER	COB 311	DAILY	9:40-11:10	
33282	MKTG4320	TOPICS: IDEA FIRM	FISHER	COB 311	DAILY	11:20-12:50	

### MIDDLE/SECONDARY AND INSTUCTIONAL TECHNOLOGIES

32244	MSIT 3310	LEARNING & DEVELOPMENT	WARD	MASH 234	TR	9:00-11:50	
32246	MSIT 4325	LITERACY DEV CONTENT AREAS	WHITTINGHAM	MASH 115	MW	9:00-11:50	

### MUSIC

30525	MUS 2300	MUSIC APPRECIATION	YOUNG	TORW 320	DAILY	9:40-11:10	
33296	MUS 2300	MUSIC APPRECIATION	MURAKAMI	SFAC 134B			
31093	MUS 4121	WORKSHOP	JARVIS	SFAC 103			
31094	MUS 4221	WORKSHOP	JARVIS	SFAC 103			
30530	MUS 6105	DIRECTED GRADUATE STUDY	JARVIS	SFAC 103			
30534	MUS 6205	DIRECTED GRADUATE STUDY	JARVIS	SFAC 103			
31105	MUS 6304	CONTEMP ISSUES IN MUS ED	ROSE		DAILY	11:20-12:50	
30535	MUS 6305	DIRECTED GRADUATE STUDY	JARVIS	SFAC 103			
33299	MUS 6320	CLASSICAL PERIOD	DAHLENBURG	ONLINE			
32947	MUS 6325	PRAC. APPL. OF RES. IN M.E.	FISHER	ONLINE			

### NUTRITION

32329	NUTR 1300	NUTRITION IN THE LIFE CYCLE	SNYDER	ONLINE			
32331	NUTR 2311	MEAL MANAGEMENT	WORTHEN	ONLINE			
32333	NUTR 3370	ADVANCED NUTRITION	FAULKNER	ONLINE			
32334	NUTR 4315	SPORTS NUTRITION	SNYDER	ONLINE			
33326	NUTR 6335	NUTRITION COUNSELING	ROOFE	ONLINE			

### PHILOSOPHY

32219	PHIL 1301	PHILOSOPHY FOR LIVING	RIDER	HAR 225	DAILY	9:40-11:10	
-------	-----------	-----------------------	-------	---------	-------	------------	--

### PHYSICS

30230	PHYS 1400	PHYSICAL SCIENCE GEN EDUC LAB	BURRIS	LSC 170 LSC 159	DAILY	8:00-9:30 MWF 9:40-11:10	
30317	PHYS 1400	PHYSICAL SCIENCE GEN EDUC LAB	WALKER	LSC 168 LSC 161	DAILY	9:40-11:10 MWF 11:20-12:50	
30316	PHYS 1400	PHYSICAL SCIENCE GEN EDUC LAB	WALKER	LSC 168 LSC 161	DAILY	9:40-11:10 TRF 11:20-12:50	
30232	PHYS 1400	PHYSICAL SCIENCE GEN EDUC LAB	BURRIS	LSC 170 LSC 159	DAILY	8:00-9:30 TRF 9:40-11:10	
30251	PHYS 1410	COLLEGE PHYSICS I LAB	MENON	LSC 168 LSC 114	DAILY	8:00-9:30 DAILY 9:40-11:10	
30253	PHYS 1410	COLLEGE PHYSICS I LAB	GAISER	LSC 170 LSC 112	DAILY	9:40-11:10 DAILY 11:20-12:50	
33183	PHYS 3360	ELECTROMAGNETISM I	FREDERICKSON	LSC 161	DAILY	8:00-9:30	

### PUBLIC RELATIONS

33099	PRLS 4310	NONPROFIT PUBLIC RELATIONS	PITCHFORD	WTH 115	DAILY	1:00-2:30	
-------	-----------	----------------------------	-----------	---------	-------	-----------	--

### POLITICAL SCIENCE

33238	PSCI 1300	INTRO TO POLITICAL SCIENCE	ARNOLD	IRB 211	DAILY	9:40-11:10	
33239	PSCI 3300	STATE GOV'T AND POLITICS	HOFFMAN	IRB 216	DAILY	9:40-11:10	
33241	PSCI 3340	GOVTS & POLS EURO & RUSSIA	MULLENBACH	IRB 212	DAILY	9:40-11:10	

### PSYCHOLOGY

30356	PSYC 1300	GENERAL PSYCHOLOGY	BRINEGAR	MASH 116	DAILY	11:20-12:50	
30365	PSYC 2330	PSYCHOLOGICAL STATISTICS	SESTIR	MASH 239	DAILY	9:40-11:10	
32008	PSYC 2370	DEVELOPMENTAL PSYCHOLOGY	MARTENS	MASH 239	DAILY	11:20-12:50	
30346	PSYC 3305	HEALTH PSYCHOLOGY	BOLTER	MASH 116	DAILY	9:40-11:10	
30363	PSYC 3332	RESEARCH METHODS	BRINEGAR	MASH 239	DAILY	1:00-2:30	
30375	PSYC 3350	PSYCHOLOGY OF WOMEN	CHARLTON	MASH 201	DAILY	9:40-11:10	
30348	PSYC 3351	PSYCHOLOGY OF LEARNING	CHARLTON	MASH 117	DAILY	9:40-11:10	
30383	PSYC 3360	SOCIAL PSYCHOLOGY	SESTIR	MASH 117	DAILY	1:00-2:30	
30355	PSYC 3370	SPORTS PSYCHOLOGY	BOLTER	MASH 202	DAILY	11:20-12:50	
32384	PSYC 4300	THEORIES OF PERSONALITY	ROWELL	MASH 202	DAILY	9:40-11:10	
30359	PSYC 4325	PHYSIOLOGICAL PSYCHOLOGY	CHARLTON	MASH 117	DAILY	11:20-12:50	
31738	PSYC 4390	PSY TESTS & MEASUREMENTS	ROWELL	MASH 202	DAILY	8:00-9:30	

### QUANTITATIVE METHODS

32524	QMT2330	BUSINESS STATISTICS	ENGLAND	ONLINE			
-------	---------	---------------------	---------	--------	--	--	--

### RELIGION

32294	RELG 1320	WORLD RELIGIONS	DEITRICK	HAR 225	DAILY	11:20-12:50	
-------	-----------	-----------------	----------	---------	-------	-------------	--

### SCIENCE EDUCATION

30077	SCI 4410	CONCEPTS OF SCIENCE	MIMMS	LSC 104	DAILY	8:00-11:10	
-------	----------	---------------------	-------	---------	-------	------------	--

### SOCIOLOGY

30116	SOC 1300	PRINCIPLES OF SOCIOLOGY	GEORGE	IRB 308	DAILY	9:40-11:10	
30122	SOC 3310	RACIAL & ETHNIC RELATIONS	GEORGE	IRB 315	DAILY	1:00-2:30	
31211	SOC 3371	JUVENILE DELINQUENCY	POWERS	IRB 315	DAILY	9:40-11:10	

### SPANISH

30231	SPAN 1310	ELEMENTARY SPANISH I	WILKES	IRB 203	DAILY	1:00-2:30	
30233	SPAN 1320	ELEMENTARY SPANISH II	SPURLOCK	IRB 204	DAILY	11:20-12:50	

### SPEECH

32774	SPCH 1300	BASIC ORAL COMMUNICATION	BEDNER	WTH 206	DAILY	9:40-11:10	
30507	SPCH 1300	BASIC ORAL COMMUNICATION	FRITZGES	WTH 114	DAILY	11:20-12:50	
30508	SPCH 1300	BASIC ORAL COMMUNICATION	FRITZGES	WTH 114	DAILY	8:00-9:30	
33160	SPCH 3307	INTERPERSONAL COMM	BEDNER	WTH 206	DAILY	11:20-12:50	
32934	SPCH 3312	PERSUASION	ALSTON-MILLER	WTH 211	DAILY	8:00-9:30	
32365	SPCH 4316	SPECIAL TOPICS	ALSTON-MILLER	WTH 211	DAILY	9:40-11:10	

### THEATRE

30280	THEA 1122	THEATRE PROD& PERFORM	BLAKEY				
30281	THEA 2122	THEATRE PROD& PERFORM	BLAKEY	SFAC 217			
30282	THEA 3122	THEATRE PROD& PERFORM	BLAKEY	SFAC 217			
30283	THEA 4122	THEATRE PROD & PERFORM	BLAKEY	SFAC 217			
30456	THEA 4322	THEATRE WORKSHOP	BLAKEY	SFAC 217			

### UNIVERSITY STUDIES

33057	UNIV 1300	TRANSITIONAL WRITING	OLDS	MH 203	DAILY	11:20-12:50	
33058	UNIV 1301	TRANSITIONAL READING	SWIFT	MH 203	DAILY	1:00-2:30	
30794	UNIV 1330	BEGINNING ALGEBRA	EDWARDS	MCS 110	DAILY	9:40-11:10	
30773	UNIV 1340	INTERMEDIATE ALGEBRA	WOOD	HAR 211	DAILY	1:30-4:30	

### WRITING

30047	WRTG1310	INTRO TO COLLEGE WRITING	BRADFORD	WTH 202	DAILY	9:40-11:10	
30048	WRTG1320	ACAD WRITING & RESEARCH	STENGEL	WTH 202	DAILY	1:00-2:30	
32666	WRTG1320	ACAD WRITING & RESEARCH	MATTSON	WTH 203	DAILY	9:40-11:10	
30052	WRTG2310	INTRO TO CREATIVE WRITING	VANDERSLICE	WTH 104	DAILY	1:00-2:30	
31966	WRTG3305	WRITING FOR DIGITAL MEDIA I	POST	WTH 105	DAILY	9:40-11:10	
31967	WRTG3335	FORMS OF FICTION	VANDERSLICE	WTH 104	DAILY	11:20-12:50	



# Summer II Session

July 8 – August 9

## ACCOUNTING

33247	ACCT 2310	PRINCIPLES OF ACCOUNTING I	VANCE	COB	201	DAILY	9:40-11:10
32928	ACCT 2311	PRINCIPLES OF ACCOUNTING II	VANCE	COB	201	DAILY	11:20-12:50
32791	ACCT 2321	LEGAL ENVIRONMENT BUS I	MCMULLEN	COB		DAILY	11:20-12:50
32792	ACCT 4317	AUDITING	ATKINSON	COB	206	DAILY	11:20-12:50

## ART

33253	ART 2300	ART APPRECIATION	MCCONNELL	MCC	143	MTWR	11:20-1:15
30453	ART 2312	3-D DESIGN	MASSEY	SSA	126	DAILY	11:20-2:30
31297	ART 3330	ILLUSTRATION I	BOWMAN	SSA	115	DAILY	8:00-11:10
32669	ART 4388	ADVANCED STUDIO	MASSEY			DAILY	
30946	ART 4388	ADVANCED STUDIO	BOWMAN	SSA	115	DAILY	8:00-11:10

## ADVANCED STUDIES IN TEACHER LEADERSHIP

32281	ASTL 6315	INV LEARN-DEV MULT CONTEXTS	WHITTINGHAM	ONLINE			
-------	-----------	-----------------------------	-------------	--------	--	--	--

## BIOLOGY

30149	BIOL 1400	BIO GEN ED: CORE CONCEPTS LAB	JONES	LSC	102	MWF	9:00-12:10
				LSC	132	TR	9:00-11:00
30164	BIOL 1441	PRINCIPLES OF BIOLOGY II LAB	STAFF	LSC	100	MWF	9:00-12:10
				LSC	127	TR	9:00-12:10
30167	BIOL 2405	HUMAN ANAT & PHYSIOLOGY LAB	MARTIN	LSC	172	MWF	8:00-11:10
				LSC	181	TR	8:00-11:10
30220	BIOL 2407	STRUC/FUNCT HUMAN BODY II LAB	WAINWRIGHT	DHSC	141	MWF	8:00-11:10
				LSC	137	TR	8:00-11:10
30221	BIOL 2411	MICROBIO IN HUMAN AFFAIRS LAB	PEPPERS	DHSC	233	MWF	9:00-12:10
				LSC	142	TR	9:00-12:10
30222	BIOL 2420	HISTOLOGY FOR HEALTH SCI	ROWLEY	ONLINE			
30068	BIOL 2490	GENETICS LAB	MUKHERJEE	LSC	184	MWF	9:00-12:10
				LSC	184	TR	9:00-12:10
32424	BIOL 3402	CELL BIOLOGY LAB	VOHRA	LSC	101	MWF	8:00-11:10
				LSC	153	TR	8:00-11:10
31243	BIOL 4351	GENERAL PHARMACOLOGY	HICKS	DHSC	313	DAILY	9:00-10:15
30224	BIOL 4415	EVOLUTION	WAGGONER	LSC	25	DAILY	9:00-12:10
31538	BIOL 5351	GENERAL PHARMACOLOGY	HICKS	DHSC	313	DAILY	9:00-10:15

## CHEMISTRY

30017	CHEM1451	COLLEGE CHEMISTRY II LAB	DOOLEY	LAN	104	DAILY	8:00-9:30
				LAN	206	MTWR	9:40-12:30
33252	CHEM2450	INTRO TO ORGANIC & BIOCHEM LAB	MARVIN	LAN	103	DAILY	8:00-9:30
				LAN	202	MTWR	9:40-11:30
33060	CHEM3411	ORGANIC CHEMISTRY II LAB	WEAVER	LAN	102	DAILY	8:00-9:30
				LAN	306	MTWR	9:40-12:30

## COMMUNICATION SCIENCES AND DISORDERS

33258	CSD 2300	INTRO COMM SCI/DISORDERS	GREGG	SLHC	111	DAILY	1:00-2:30
33259	CSD 2303	BASIC SIGN LANGUAGE	THURMAN	SLHC	111	DAILY	9:40-11:10
33301	CSD 4303	SIGN LANGUAGE	THURMAN	SLHC	111	DAILY	9:40-11:10

## ECONOMICS

30238	ECON2310	GLOBAL ENVIRONMENT OF BUS	HORTON	COB	100	DAILY	1:00-2:30
32784	ECON2320	PRINCIPLES OF MACROECON	CANTRELL	COB	111	DAILY	11:20-12:50
30241	ECON2321	PRINCIPLES OF MICROECON	HORTON	COB	100	DAILY	9:40-11:10

## EARLY CHILDHOOD AND SPECIAL EDUCATION

33169	ECSE 6306	FAMILY/SCH/COMM PARTNERS	FILER	ONLINE			MEETS JULY 8-AUGUST 2
33170	ECSE 6308	ED ASSESS IN SPEC ED	PEARSON	ONLINE			MEETS JULY 8-AUGUST 2
30305	ECSE 6330	TRANSDISC ASSESS/COLLAB	FILER	MASH	120	DAILY	2:00-5:00 MEETS JULY 8-JULY 26

## EARLY CHILDHOOD AND SPECIAL EDUCATION (CONTINUED)

32890	ECSE 6335	AUTISM, PDD, OD/CD	KOHLER	MASH	231	DAILY	12:15-4:15 MEETS JULY 8 - JULY 19
32318	ECSE 6341	LANGUAGE ARTS - ELEM SCH	FENG	ONLINE			MEETS JULY 8-AUGUST 2
33165	ECSE 6353	INTRO TO GIFTED EDUCATION		ONLINE			MEETS JULY 8-AUGUST 2
33167	ECSE 6357	CREATIVITY - GT		ONLINE			MEETS JULY 8-AUGUST 2
30311	ECSE 6370	LAB PRAC FOR IND WITH DIS	BARRINGTON	MASH	203		MEETS JULY 8-AUGUST 2
30312	ECSE 6371	LAB PRAC FOR IND WITH DIS	BARRINGTON	MASH	204		MEETS JULY 8-AUGUST 2

## EDUCATION

32220	EDUC 1240	BASIC EDUC TECH SKILLS	MILLS	MASH	107	MW	10:00-12:00
-------	-----------	------------------------	-------	------	-----	----	-------------

## ENGLISH

32263	ENGL 2305	WORLD LITERATURE I	COLEMAN	IRB	304	DAILY	1:00-2:30
30158	ENGL 2306	WORLD LITERATURE II	LAVENDER	IRB	304	DAILY	11:10-12:50
31746	ENGL 2370	INTRODUCTION TO FICTION	MCCUNE	IRB	303	DAILY	9:40-11:10
33270	ENGL 4331	SHAKESPEARE II	FRONTAIN	IRB	304	DAILY	9:40-11:10
33271	ENGL 5331	SHAKESPEARE II	FRONTAIN	IRB	304	DAILY	9:40-11:10

## FAMILY AND CONSUMER SCIENCES

32510	FACS 2341	LIFESPAN DEVELOPMENT	MCCOY	ONLINE			
32326	FACS 2351	FAMILY RELATIONS	GUINEE	ONLINE			
32531	FACS 3311	RESOURCE MANAGEMENT	SNYDER	ONLINE			

## FINANCE

30267	FINA 3340	MONEY, BANKING, & FIN MKTS	CANTRELL	COB	111	DAILY	9:40-11:10
30268	FINA 4333	INTERNATIONAL FINANCE	HE	COB	111	DAILY	8:00-9:30

## GEOGRAPHY

33182	GEOG 1315	INTRO TO PHYSICAL GEO	PEARSON	IRB	311	DAILY	9:40-11:10
31108	GEOG 3399	INTERNSHIP	ALLENDER	IRB			
31223	GEOG 3699	INTERNSHIP	ALLENDER	IRB			
32272	GEOG 4160	SPECIAL PROBLEMS	PEARSON	IRB			
32092	GEOG 4260	SPECIAL PROBLEMS	PEARSON	IRB			
32093	GEOG 4360	SPECIAL PROBLEMS	PEARSON	IRB			

## HEALTH EDUCATION

30427	H ED 1320	CONC LIFETIME HEALTH/FIT	SHELTON	DHSC	325	DAILY	9:40-11:10
33216	H ED 4312	DRUG EDUCATION	SHELTON	DHSC	325	DAILY	11:20-12:50



**SUMMER SESSIONS**

The summer sessions at UCA mean easier parking.

[uca.edu/summer](http://uca.edu/summer)

## Summer II Session continued

### HEALTH SCIENCES

30429 H SC 3123 MEDICAL TERMINOLOGY FOX DHSC 325 M 2:00-3:00

### HISTORY

30200 HIST 1310 WORLD HISTORY I BARNES IRB 122 DAILY 8:00-9:30  
 30203 HIST 1320 WORLD HISTORY II GREEN IRB 122 DAILY 9:40-11:10  
 33137 HIST 2302 AMERICAN NATION II ROSENOW IRB 115 MTWR 1:00-3:00  
 33138 HIST 4390 ROMAN EMPIRE: 40 BC-395 AD CRAUN IRB 122 DAILY 11:20-12:50  
 33139 HIST 5390 ROMAN EMPIRE: 40 BC-395AD CRAUN IRB 122 DAILY 11:20-12:50

### INSTRUCTIONAL TECHNOLOGY

33248 ITEC 5345 FUND OF WEB DESIGN STONE ONLINE MW 5:00-8:30  
 32415 ITEC 6368 TECH PLANNING & LEADERSHIP HUFFMAN ONLINE TR 1:00-4:30  
 32895 ITEC 6370 LEADERSHIP IN DISTANCE ED HUFFMAN ONLINE T 5:00-9:00  
 32896 ITEC 6392 SEM: TRENDS/ISSUES IN ITEC HUFFMAN ONLINE R 5:00-9:00

### KINESIOLOGY & PHYSICAL EDUCATION

30585 KPED 1320 CONC LIFETIME HEALTH/FIT HERVEY FC 201 DAILY 9:40-11:10  
 32914 KPED 3212 COACHING BASKETBALL HERVEY FC 201 MTWR 1:00-3:00  
 30586 KPED 3316 CURRICULUM PARKER FC 210 MTWR 1:00-4:00  
 30587 KPED 3382 MECHANICAL KINESIOLOGY TUCKER FC 200 DAILY 9:40-11:10  
 30588 KPED 4230 FITNESS ASSESS/EXERCISE RX TUCKER FC 200 DAILY 11:20-12:50  
 30596 KPED 6340 CURRIC CONSTRUCTION PE/REC PARKER FC 210 MTWR 1:00-4:00

### LEADERSHIP

33250 LEAD 6321 RESEARCH METHODS COPELAND ONLINE TR 5:00-8:30

### LIBRARY MEDIA & INFORMATION TECHNOLOGIES

32898 LIBM 6320 INTRO LIBRARY & INFO SCI BLAND ONLINE TR 9:00-12:30  
 32412 LIBM 6360 COLLECTION DEVELOPMENT RICKMAN ONLINE MW 9:00-12:30  
 32409 LIBM 6371 DESIGNING INFO PROGRAMS RICKMAN ONLINE MW 1:00-4:30

### MASTER OF ARTS IN TEACHING

30057 MAT 5310 ANALYSIS/PRACTICE OF TEACH WAKE MASH 115 TR 5:00-9:00  
 30058 MAT 5320 THEORY/PRACT CLASS MGMT MILLS MASH 115 MW 5:00-9:00  
 33120 MAT 6302 MODELS OF TEACHING BUNN MASH 234 TR 5:00-9:00  
 33022 MAT 6374 CURRICULUM RATIONALE-ECE STURDIVANT ONLINE

### MATHEMATICS

32226 MATH 1360 QUANTITATIVE LITERACY SUMNERS MCS 220 DAILY 8:00-9:30  
 30097 MATH 1390 COLLEGE ALGEBRA ELKIN MCS 220 DAILY 11:20-12:50  
 30099 MATH 1392 PLANE TRIGONOMETRY TUBBS MCS 219 DAILY 11:20-12:50  
 30100 MATH 1395 APPLIED CALC BUSINESS/ECON STAFF MCS 219 DAILY 9:40-11:10



## YOUR HOUSING CHOICES

Get a head start on housing choices.

### MATHEMATICS (CONTINUED)

30101 MATH 2311 STATISTICAL METHODS I SUMNERS MCS 111 DAILY 9:40-11:10  
 30102 MATH 3331 DIFFERENTIAL EQUATIONS STAFF MCS 219 DAILY 8:00-9:30  
 32255 MATH 6310 ALG STRUCT MATH TEACHERS BUTCHER MCS 213 DAILY 8:00-9:30  
 33285 MATH 6340 HISTORICAL PERSPECT MATH BUTCHER MCS 213 DAILY 9:40-11:10

### BUSINESS

30497 MBA 6305 FINANCIAL DECISION MAKING HE COB 302 MW 1:30-5:30  
 30503 MBA 6308 MARKETING STRATEGY VOSS ONLINE  
 30500 MBA 6320 STRATEGIC MANAGEMENT MCCALMAN COB 302 TR 6:00-9:00

### MANAGEMENT

30332 MGMT 3340 MANAGING PEOPLE & WORK CHEN ONLINE  
 32030 MGMT 3340 MANAGING PEOPLE & WORK NADLER COB 210 DAILY 8:00-9:30  
 32031 MGMT 3344 MANAGING PRODUCTION/OP NADLER COB 210 DAILY 9:40-11:10  
 31893 MGMT 3375 SUPPLY CHAIN MANAGEMENT VOSS COB 311 MTW 9:40-12:45  
 30479 MGMT 4347 MANAGING POLICY & STRATEGY MCCALMAN COB 315 DAILY 8:00-9:30  
 30460 MGMT 4348 ADV ORGANIZATIONAL BEHAVIOR CHEN COB DAILY 9:40-11:10

### MANAGEMENT INFORMATION SYSTEMS

33280 MIS 2343 DESKTOP DECISION SUPP TECH MCMURTREY COB 308 DAILY 8:00-9:30  
 32504 MIS 3321 MANAGING SYSTEMS & TECH MCGAUGHEY ONLINE  
 31878 MIS 3363 TELECOMM & COMP NETWORKS ZELTMANN COB 307 DAILY 9:40-11:10

### MARKETING

30336 MKTG 3350 PRINCIPLES OF MARKETING KIM COB 214 DAILY 8:00-9:30  
 31202 MKTG 4320 TOPICS: SPORTS MARKETING MYERS COB 315 DAILY 9:40-11:10  
 31199 MKTG 4354 CUSTOMER BEHAVIOR MYERS COB 315 DAILY 11:20-12:50  
 30475 MKTG 4355 MARKETING MANAGEMENT KIM COB 214 DAILY 11:20-12:50

### MUSIC

33297 MUS 2300 MUSIC APPRECIATION MURAKAMI SFAC 134B  
 30536 MUS 2300 MUSIC APPRECIATION BROOKS SFAC 131 DAILY 8:00-9:30  
 31168 MUS 4121 WORKSHOP JARVIS SFAC 103  
 31973 MUS 4221 WORKSHOP JARVIS SFAC 103  
 31169 MUS 4321 WORKSHOP JARVIS SFAC 103  
 32433 MUS 5326 ORFF SCHULWERK, LEVEL II ROSE  
 30543 MUS 6105 DIRECTED GRADUATE STUDY JARVIS SFAC 103  
 30537 MUS 6203 INSTRUMENTAL LITERATURE I BROOKS SFAC 120 DAILY 9:40-11:10  
 30544 MUS 6205 DIRECTED GRADUATE STUDY JARVIS SFAC 103  
 31645 MUS 6206 INSTRUMENTAL CONDUCTING BROOKS SFAC 120  
 30545 MUS 6305 DIRECTED GRADUATE STUDY JARVIS SFAC 103  
 33298 MUS 6314 SEMINAR IN MUSIC THEORY ANTHONY SFAC 306



## ENJOY THE CAMPUS

Enjoy campus activities during the UCA summer sessions.

## Summer II Session continued

### NUTRITION

32330	NUTR 1300	NUTRITION IN THE LIFE CYCLE	SNYDER	ONLINE
32332	NUTR 2311	MEAL MANAGEMENT	WORTHEN	ONLINE
32521	NUTR 4315	SPORTS NUTRITION	SNYDER	ONLINE
33325	NUTR 6345	PEDIATRIC NUTRITION	ROOFE	ONLINE

### PHILOSOPHY

32622	PHIL 1301	PHILOSOPHY FOR LIVING	BUTLER	HAR	225	DAILY	11:20-12:50
32762	PHIL 1330	WORLD PHILOSOPHIES	BRASOVAN	HAR	225	DAILY	9:40-11:10

### PHYSICS

33184	PHYS 1401	DESCRIPTIVE ASTRONOMY LAB	N. AUSTIN	LSC 168	DAILY	8:00-9:30
				LSC 159	TRF	9:40-11:10
30242	PHYS 1401	DESCRIPTIVE ASTRONOMY LAB	N. AUSTIN	LSC 168	DAILY	8:00-9:30
				LSC 159	MWF	9:40-11:10
30318	PHYS 1420	COLLEGE PHYSICS 2 LAB	MEHTA	LSC 170	DAILY	8:00-9:30
				LSC 114	DAILY	9:40-11:10
30319	PHYS 1420	COLLEGE PHYSICS 2 LAB	GAISER	LSC 170	DAILY	9:40-11:10
				LSC 112	DAILY	11:20-12:50

### PSYCHOLOGY

30371	PSYC 1300	GENERAL PSYCHOLOGY	BOLTER	MASH 116	DAILY	9:40-11:10
30369	PSYC 2330	PSYCHOLOGICAL STATISTICS	LAMMERS	MASH 237	DAILY	9:40-11:10
30379	PSYC 3325	COGNITIVE PSYCHOLOGY	BOOHER	MASH 236	DAILY	1:00-2:30
30362	PSYC 3330	SENSATION & PERCEPTION	SOBEL	MASH 201	DAILY	1:00-2:30
30384	PSYC 3340	RESEARCH METHODS LAB	ANDERSON	MASH 237	DAILY	11:20-12:50
30381	PSYC 4320	ABNORMAL PSYCHOLOGY	XIE	MASH 116	DAILY	11:20-12:50
30377	PSYC 4340	HISTORY SYSTEMS OF PSYCH	SCOLES	MASH 117	DAILY	9:40-11:10
33281	PSYC 4352	ADULT PSYCHOLOGY	BOOHER	MASH 239	DAILY	9:40-11:10

### QUANTITATIVE METHODS

30303	QMT2330	BUSINESS STATISTICS	GRIFFIN	ONLINE
-------	---------	---------------------	---------	--------

### RADIOGRAPHY

30165	RADG2111	MEDICAL TERMINOLOGY	SIMMONS
30196	RADG2111	MEDICAL TERMINOLOGY	CROCKER
30166	RADG2112	IMAGE PROCESSING	SIMMONS
30198	RADG2112	IMAGE PROCESSING	CROCKER

### RADIOGRAPHY (CONTINUED)

30199	RADG2113	RADIOGRAPHIC PROCEDURES I	CROCKER
30168	RADG2113	RADIOGRAPHIC PROCEDURES I	SIMMONS
30201	RADG2114	MEDICAL ETHICS & LAW	CROCKER
30169	RADG2114	MEDICAL ETHICS & LAW	SIMMONS
31754	RADG2115	CLINICAL EDUCATION I	SIMMONS
31755	RADG2115	CLINICAL EDUCATION I	CROCKER
30172	RADG3140	PRIN OF RADIATION BIOLOGY	SIMMONS
30207	RADG3140	PRIN OF RADIATION BIOLOGY	CROCKER
30209	RADG3141	PRIN OF RADIATION PROTECT	CROCKER
30173	RADG3141	PRIN OF RADIATION PROTECT	SIMMONS
30213	RADG3144	RADIOGRAPHIC PROCED IV	CROCKER
30176	RADG3144	RADIOGRAPHIC PROCED IV	SIMMONS
32296	RADG3340	CLINICAL EDUCATION IV	SIMMONS
32293	RADG3340	CLINICAL EDUCATION IV	CROCKER

### SOCIOLOGY

30132	SOC 1300	PRINCIPLES OF SOCIOLOGY	AKHTER	IRB 308	DAILY	8:00-9:30
31207	SOC 2321	SOCIAL STATISTICS	SHEPHERD	IRB 202	DAILY	8:00-9:30
32287	SOC 3320	SOCIAL RESEARCH METHODS	TOTH	IRB 202	DAILY	2:40-4:10
31195	SOC 3361	GENDER ROLES	AKHTER	IRB 308	DAILY	9:40-11:10
31208	SOC 4330	SOCIAL THEORY	SHEPHERD	IRB 202	DAILY	11:20-12:50

### SPANISH

30235	SPAN 1320	ELEMENTARY SPANISH II	BARR	BURD 213	DAILY	9:40-11:10
30237	SPAN 2300	INTERMEDIATE SPANISH	BARR	BURD 213	DAILY	11:20-12:50
33127	SPAN 4395	LA COMEDIA	PARRACK	IRB 310	MTWR	10:00-12:00
33126	SPAN 6395	LA COMEDIA	PARRACK	IRB 310	MTWR	10:00-12:00

### SPEECH

32370	SPCH 1300	BASIC ORAL COMMUNICATION	BRAY	WTH 206	DAILY	9:40-11:10
32372	SPCH 1300	BASIC ORAL COMMUNICATION	DILDAY	WTH 206	DAILY	5:00-6:30
30512	SPCH 1300	BASIC ORAL COMMUNICATION	BRAY	WTH 206	DAILY	11:20-12:50



# GET YOUR DEGREE FASTER

Taking just one summer class  
gets you one step  
closer to graduation.

o	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
933	58.693	63.546	65.38	69.723	72.64	74.922	78.96	79.904	83.798
dium	palladium	silver	cadmium	indium	tin	antimony	tellurium	iodine	xenon
5	46	47	48	49	50	51	52	53	54
h	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
				114.82	118.71	121.76	127.60	126.90	131.29



## Summer II Session continued

### SPEECH (CONTINUED)

33161	SPCH 1300	BASIC ORAL COMMUNICATION	DILDAY	WTH	206	DAILY 1:00-2:30
32368	SPCH 3301	ORGANIZATIONAL COMM	MCINTYRE	WTH	115	DAILY 9:40-11:10
33162	SPCH 4316	SPECIAL TOPICS COMM	MCINTYRE	WTH	115	DAILY 11:20-12:50

### UNIVERSITY STUDIES

32391	UNIV 1300	TRANSITIONAL WRITING	OLDS	MH	205	DAILY 8:00-9:30
31978	UNIV 1301	TRANSITIONAL READING	OLDS	MH	205	DAILY 9:40-11:10
31537	UNIV 1340	INTERMEDIATE ALGEBRA	FIELDER	MH	27	DAILY 9:40-12:50

### WRITING

30050	WRTG 1310	INTRO TO COLLEGE WRITING	POWELL	WTH	103	DAILY 8:00-9:30
30051	WRTG 1320	ACAD WRITING & RESEARCH	LANCE	WTH	210	DAILY 9:40-11:10
31427	WRTG 1320	ACAD WRITING & RESEARCH	ALLEN	WTH	202	DAILY 8:00-9:30
32927	WRTG 3320	FORMS OF SCRIPTWRITING	MAY	WTH	202	DAILY 11:20-12:50



## SMALLER CLASS SIZES

The summer sessions at the University of Central Arkansas mean smaller class sizes.



## Outreach

[UCA.EDU/OUTREACH](http://UCA.EDU/OUTREACH)

The Office of Extended Study offers six-month, open enrollment courses to give the student a longer time frame in which to complete a course. These self-paced courses are perfect for individuals who have a hard time fitting on-campus classes into their schedules. The six-month period begins on the day the student's application for Extended Study is processed. The online registration form can be found at [uca.edu/outreach/](http://uca.edu/outreach/) online-forms

For more information, please call 501-450-3118 or visit [uca.edu/outreach](http://uca.edu/outreach)

### HEALTH EDUCATION

32850	HED 2200	PERSONAL HEALTH	DULAC	ONLINE	OPEN LEARNING
-------	----------	-----------------	-------	--------	---------------

### HISTORY

33141	HIST 1310	WORLD HISTORY I	CRAUN	PAPER BASED	OPEN LEARNING
33144	HIST 1310	WORLD HISTORY I	CRAUN	ONLINE	OPEN LEARNING

### HISTORY (CONTINUED)

33147	HIST 1320	WORLD HISTORY II	FOSTER	ONLINE	OPEN LEARNING
33148	HIST 3310	SOC SCI CONCEPTS IN AR HIST	GORDY	ONLINE	OPEN LEARNING
33149	HIST 4376	EUROPE, 1914-1939	BARNES	ONLINE	OPEN LEARNING
33150	HIST 4382	RUSSIA SINCE 1917	BARNES	ONLINE	OPEN LEARNING

### POLITICAL SCIENCE

33142	PSCI 2300	INTRO TO INTL RELATIONS	MULLENBACH	PAPER BASED	OPEN LEARNING
33143	PSCI 3370	POLITICAL THEORY I	ARNOLD	PAPER BASED	OPEN LEARNING

### PSYCHOLOGY

33151	PSYC 1300	GENERAL PSYCHOLOGY	SMITH	ONLINE	OPEN LEARNING
33152	PSYC 2330	PSYCHOLOGICAL STATISTICS	SCOLES	ONLINE	OPEN LEARNING
33153	PSYC 2370	DEVELOPMENTAL PSYCHOLOGY	LAMMERS	ONLINE	OPEN LEARNING
33154	PSYC 3360	SOCIAL PSYCHOLOGY	SMITH	ONLINE	OPEN LEARNING
33155	PSYC 4320	ABNORMAL PSYCHOLOGY	XIE	ONLINE	OPEN LEARNING

### SOCIOLOGY

33156	SOC 1300	PRINCIPLES OF SOCIOLOGY	SHEPHERD	ONLINE	OPEN LEARNING
-------	----------	-------------------------	----------	--------	---------------