



Conferring a Master's Degree for Student in a Doctoral Degree Program	91
Education Specialist Degree (Ed.S.) Requirements	92
Doctoral Degree Requirements.....	93
Graduation Information	102
Posthumous Degrees and Degrees in Memoriam	104
Office of Postdoctoral Affairs	105
USF Curriculum Definitions	106
Concurrent Degree	114
Graduate Certificates	129
Majors (A-Z)	132
Accountancy and Analytics, M.S.A.A.	133
Admission Information.....	134
Advertising, M.S.	136
Admission Information.....	137
Aging Studies, Ph.D.....	139
Admission Information.....	140
Applied Aging Sciences, M.S.	142
Admission Information.....	143
Applied Anthropology, M.A.	145
Admission Information.....	146
Applied Anthropology, Ph.D.	150
Admission Information.....	151
Applied Behavior Analysis, M.A.	156
Admission Information.....	157
Applied Behavior Analysis, M.S.	159
Admission Information.....	160
Applied Behavior Analysis, Ph.D.	162
Admission Information.....	163
Applied Mathematics, M.A.	165
Architecture, M.Arch.....	169
Admission Information.....	170
Art History, M.A.....	173
Admission Information.....	174



Art, M.F.A.	177
Admission Information.....	178
Artificial Intelligence (AI) and Business Analytics, M.S.	180
Admission Information.....	181
Athletic Training, M.S.	185
Admission Information.....	186
Audiology, Au.D.....	189
Admission Information.....	190
Behavioral and Community Sciences, Ph.D.....	193
Admission Information.....	194
Big Data Analytics, Ph.D.....	197
Admission Information.....	198
Bioinformatics and Computational Biology, M.S.B.C.B.....	201
Admission Information.....	202
Biology, M.S.	204
Admission Information.....	205
Biomedical Engineering, M.S.B.E.	209
Admission Information.....	210
Biomedical Engineering, Ph.D.	215
Admission Information.....	216
Biotechnology, M.S.B.	220
Admission Information.....	221
Business Administration, D.B.A	223
Admission Information.....	224
Business Administration, M.B.A.	228
Admission Information.....	229
Business Administration, Ph.D.	234
Admission Information.....	235
Cancer Biology, Ph.D.....	239
Admission Information.....	240
Cancer Chemical Biology, Ph.D.	242
Admission Information.....	243
Cancer Immunology and Immunotherapy, Ph.D.....	245
Admission Information.....	246



Career and Technical Education, M.A.	248
Admission Information.....	249
Cell and Molecular Biology, Ph.D.	250
Admission Information.....	251
Chemical Engineering, M.S.Ch.....	254
Admission Information.....	255
Chemical Engineering, Ph.D.	257
Admission Information.....	258
Chemistry, M.A.	260
Admission Information.....	261
Chemistry, M.S.....	263
Admission Information.....	264
Chemistry, Ph.D.	266
Admission Information.....	267
Child and Adolescent Behavioral Health, M.S.	269
Admission Information.....	270
Civil Engineering, M.S.C.E.	272
Accreditation	273
Major Research Areas	274
Admission Information.....	275
Civil Engineering, Ph.D.	279
Accreditation	280
Admission Information.....	281
Clinical Rehabilitation and Mental Health Counseling, M.A.	284
Admission Information.....	285
Communication Sciences and Disorders, Ph.D.....	288
Admission Information.....	289
Communication, M.A.....	292
Admission Information.....	293
Communication, Ph.D.	295
Admission Information.....	296
Computer Engineering, M.S.C.P.	298
Admission Information.....	299
Computer Science and Engineering, Ph.D.....	301



Admission Information.....	302
Computer Science, M.S.C.S.....	305
Admission Information.....	306
Conservation Biology, M.S.	308
Admission Information.....	309
Counselor Education, M.A.	311
Admissions Information.....	312
Creative Writing, M.F.A.....	314
Admission Information.....	315
Criminal Justice, M.A.....	317
Admission Information.....	318
Criminology, M.A.	320
Admission Information.....	321
Criminology, Ph.D.	323
Admission Information.....	324
Curriculum and Instruction, Ed.S.	326
Admission Information.....	327
Curriculum and Instruction, M.Ed.	332
Admission Information.....	334
Curriculum and Instruction, Ph.D.	340
Admission Information.....	342
Cybercrime, M.S.....	350
Admission Information.....	351
Cybersecurity Intelligence and Information Security, M.S.....	353
Admissions Information.....	354
Cybersecurity, M.S.C.Y.S.....	356
Admissions Requirements	357
Data Intelligence, M.S.D.I.	359
Admission Information.....	360
Digital Journalism and Design, M.A.....	362
Admission Information.....	363
Economics, M.A.	365
Admission Information.....	366
Economics, Ph.D.	368



Admission Information.....	369
Educational Leadership, Ed.S.	371
Admission Information.....	372
Educational Leadership, M.Ed.	374
Admission Information.....	375
Educational Leadership, Ph.D.....	377
Admission Information.....	378
Educational Program Development, Ed.D.	380
Admission Information.....	381
Educational Studies, M.A.	384
Admission Information.....	385
Electrical Engineering, M.S.E.E.....	387
Admission Information.....	388
Electrical Engineering, Ph.D.	390
Admission Information.....	391
Elementary Education (ESOL Endorsement), M.A.T.	394
Admission Information.....	395
Elementary Education, M.A.	397
Admission Information.....	398
Engineering Management, M.S.E.M.....	399
Admission Information.....	400
English, M.A.	402
Admission Information.....	403
English, Ph.D.....	406
Admission Information.....	407
Entrepreneurship in Applied Technologies, M.S.....	410
Admission Information.....	411
Environmental Engineering, M.S.E.V.....	413
Accreditation:	414
Major Research Areas:	415
Admission Information.....	416
Environmental Engineering, Ph.D.	418
Admission Information.....	419
Environmental Science and Policy, M.S.	421



Admission Information.....	422
Exceptional Student Education (ESOL and Reading Endorsements), M.A.T.	424
Admission Information.....	425
Exceptional Student Education, M.A.	427
Admission Information.....	428
Executive, M.B.A.	429
Admission Information.....	430
Exercise Science, M.S.	432
Admission Information.....	433
Financial Analytics, M.S.	436
Admission Information.....	437
French, M.A.	440
Admission Information.....	441
Geography and Environmental Science and Policy, Ph.D.....	443
Admission Information.....	444
Geography, M.A.	446
Admission Information.....	447
Geology, M.S.	450
Admission Information.....	451
Geology, Ph.D.	453
Admission Information.....	454
Gerontology, M.A.	456
Admission Information.....	457
Global Sustainability, M.A.....	459
Admission Information.....	460
Global Sustainability, M.S.	463
Admission Information.....	464
Health Administration, M.H.A.	467
Admission Information.....	468
Health Informatics, M.S.H.I.	470
Admission Information.....	471
Higher Education Administration, Ph.D.....	473
Admission Information.....	474
History, M.A.	476



Admission Information.....	477
History, Ph.D.....	480
Admission Information.....	481
Hospitality Management, M.S.....	484
Admission Information.....	485
Industrial Engineering, M.S.I.E.....	487
Admission Information.....	488
Industrial Engineering, Ph.D.	490
Admission Information.....	491
Information Assurance and Cybersecurity Management, M.S.....	493
Integrated Mathematical Oncology, Ph.D.....	495
Admission Information.....	496
Integrative Biology, Ph.D.	498
Admission Information.....	499
Intelligence Studies, M.S.	502
Admissions Information.....	503
International Affairs, M.A.....	505
Admission Information.....	506
Latin American, Caribbean, and Latino Studies, M.A.....	508
Admission Information.....	509
Learning Design and Technology, M.S.	511
Admission Information.....	512
Liberal Arts, M.A.	514
Admission Information.....	515
Library and Information Science, M.A.	518
Admission Information.....	519
Linguistics and Applied Language Studies, Ph.D.....	521
Admission Information.....	522
Linguistics: English as a Second Language, M.A.....	524
Admission Information.....	525
Management, M.S.....	527
Admission Information.....	528
Marine Science, M.S.	531
Admission Information.....	533



Marine Science, Ph.D.	536
Admission Information.....	538
Marketing, M.S.M.....	542
Admission Information.....	543
Marriage and Family Therapy, M.S.	545
Admission Information.....	546
Mass Communications, M.A.	548
Admission Information.....	549
Materials Science and Engineering, M.S.M.S.E.	551
Admission Information.....	552
Mathematics Education, M.A.T.....	553
Admission Information.....	554
Mathematics, M.A.	556
Admission Information.....	557
Mathematics, Ph.D.....	561
Admission Information.....	562
Mechanical Engineering, M.S.M.E.	567
Admission Information.....	568
Mechanical Engineering, Ph.D.	570
Admission Information.....	571
Medical Sciences, M.S.M.S.	573
Admission Information.....	574
Medical Sciences, Ph.D.....	578
Admission Information.....	579
Medicine, M.D.....	584
Admission Information.....	585
Microbiology, M.S.....	588
Admission Information.....	589
Music Education, M.A.	591
Admission Information.....	592
Music, M.M.	594
Admission Information.....	595
Music, Ph.D.	599
Admission Information.....	600



Nurse Anesthesiology, D.N.P.....	602
Admission Information.....	603
Nursing (BSN to MSN), M.S.N.	607
Admission Information.....	609
Nursing Science, Ph.D.....	612
Admission Information.....	613
Nursing, D.N.P.	615
Admission Information.....	616
Pharmaceutical Nanotechnology, M.S.	621
Admission Information.....	622
Pharmacy, Pharm.D.	625
Admission Information.....	626
Philosophy, M.A.	630
Admission Information.....	631
Philosophy, Ph.D.....	634
Admission Information.....	635
Physical Education, M.A.....	638
Admission Information.....	639
Physical Therapy, D.P.T.	641
Admission Information.....	642
Physician Assistant Studies, M.P.A.S.....	644
Admission Information.....	645
Physics (Applied Physics), Ph.D.	648
Admission Information.....	649
Physics, M.S.....	651
Admission Information.....	652
Politics and International Affairs, Ph.D.....	653
Admission Information.....	654
Psychological Sciences, M.A.	656
Admission Information.....	657
Psychology, Ph.D.	659
Admission Information.....	660
Psychology, M.A.....	664
Admission Information.....	665



Public Administration, M.P.A.....	668
Admission Information.....	669
Public Health, Dr.P.H.	671
Admission Information.....	672
Public Health, M.P.H.....	675
Admission Information.....	677
Public Health, M.S.P.H.....	682
Admission Information.....	683
Public Health, Ph.D.....	686
Admission Information.....	687
Reading Education, M.A.	691
Admission Information.....	693
Rehabilitation Counseling and Disability Sciences, M.A.....	695
Religious Studies, M.A.....	697
Admission Information.....	698
School Psychology, Ed.S.....	700
ADMISSION INFORMATION	701
School Psychology, M.A.	703
Admission Information.....	704
School Psychology, Ph.D.	705
Admission Information.....	706
Science Education, M.A.T.	708
Admission Information.....	709
Secondary English Education (ESOL and Reading Endorsements), M.A.T.....	711
Admission Information.....	712
Secondary English Education, M.A.	714
Admission Information.....	715
Social Science Education, M.A.T.	717
Admission Information.....	718
Social Work, M.S.W.	720
Admission Information.....	721
Social Work, Ph.D.....	724
Admission Information.....	725
Sociology, M.A.	727



Admission Information.....	728
Sociology, Ph.D.	729
Admission Information.....	730
Spanish, M.A.	732
Admission Information.....	733
Speech-Language Pathology, M.S.	735
Admission Information.....	736
Sport and Entertainment Management, M.S.	738
Admission Information.....	739
Statistics, M.A.	741
Admission Information.....	742
STEM Education, M.S.	745
Admission Information.....	746
Supply Chain Management, M.S.	747
Admission Information.....	748
Technology in Education and Second Language Acquisition (TESLA), Ph.D.	749
Admission Information.....	750
Urban and Community Design, M.U.C.D.	752
Admission Information.....	753
Urban and Regional Planning, M.U.R.P.	755
Admission Information.....	756
Urban Educational Leadership, M.A.	758
Admission Information.....	759
Women's, Gender, and Sexuality Studies, M.A.	761
Admission Information.....	762
Academic Advising Graduate Certificate	764
Addictions and Substance Abuse Counseling Graduate Certificate.....	766
Adult Learning and Development Graduate Certificate.....	767
Adult-Gerontology Acute Care (Post Master's) Graduate Certificate	768
Advanced Pain Management Fellowship Graduate Certificate.....	770
Advanced Quantitative Research Graduate Certificate.....	772
Aging & Neuroscience Graduate Certificate	774
American Culture & Society Graduate Certificate	776
Anatomy Graduate Certificate	777



Applied Biostatistics Graduate Certificate.....	778
Applied Linguistics Graduate Certificate	780
Artificial Intelligence Graduate Certificate.....	782
Athletic Coaching Graduate Certificate	784
Autism Spectrum Disorder Graduate Certificate.....	785
Big Data and Learning Analytics Graduate Certificate	786
Bioinformatics Graduate Certificate.....	788
Biotechnology Graduate Certificate	790
Business Analytics Graduate Certificate.....	792
Business Foundations Graduate Certificate	794
Career and Technical Education Graduate Certificate	795
Cellular Therapies Graduate Certificate	796
Child Advocacy Studies Graduate Certificate	798
Children's Mental Health Graduate Certificate	799
Climate Mitigation and Adaptation Graduate Certificate.....	801
Clinical Aging Sciences Graduate Certificate.....	803
College Teaching Graduate Certificate	805
Community Development Graduate Certificate	807
Comparative Literary Studies Graduate Certificate.....	809
Compliance, Risk, & Anti-Money Laundering Graduate Certificate	811
Concepts & Tools of Epidemiology Graduate Certificate	813
Creative Writing Graduate Certificate.....	815
Creativity and Innovation Graduate Certificate	817
Critical Global Literacies Graduate Certificate	818
Cyber Intelligence Graduate Certificate.....	819
Data Analysis (Psychology) Graduate Certificate.....	821
Data Analytics Graduate Certificate	823
Data Science for Public Administration Graduate Certificate.....	825
Digital & Transdisciplinary Literacies Graduate Certificate	827
Digital Forensics Graduate Certificate.....	828
Digital Humanities Graduate Certificate.....	830
Disabilities Education: Severe/Profound Graduate Certificate.....	831
Disaster Management Graduate Certificate	832
Diversity in Education Graduate Certificate.....	834
Drug Discovery and Development Graduate Certificate	835



eLearning Design and Development Graduate Certificate.....	836
Energy Sustainability Graduate Certificate	838
Entrepreneurship Graduate Certificate	840
Environmental Policy & Management Graduate Certificate.....	842
Epidemiology of Infectious Diseases Graduate Certificate	844
ESOL Graduate Certificate.....	846
Evaluation Graduate Certificate	847
Exceptional Student Education Graduate Certificate.....	849
Film & New Media Studies Graduate Certificate.....	850
Financial Planning Graduate Certificate.....	851
Florida Studies Graduate Certificate	853
Food Sustainability and Security Graduate Certificate.....	855
Food Writing and Photography Graduate Certificate.....	857
Foreign Language Education: Culture and Content Graduate Certificate.....	858
Foreign Language Education: Professional Graduate Certificate.....	860
Game Design for Learning Graduate Certificate.....	861
Geographic Information Science Graduate Certificate.....	862
Gerontology Graduate Certificate.....	864
Gifted Education Graduate Certificate.....	866
Global Health Practice Graduate Certificate.....	867
Global Sustainability Graduate Certificate.....	868
Health Informatics Graduate Certificate.....	870
Health Management & Leadership Graduate Certificate.....	871
Health Sciences Graduate Certificate	872
Healthcare Analytics Graduate Certificate	874
Homeland Security Graduate Certificate.....	875
Hospice and Palliative Care Graduate Certificate	876
Human Resources Graduate Certificate.....	878
Humanitarian Assistance Graduate Certificate.....	880
Infant-Family Mental Health Graduate Certificate	882
Infection Control Graduate Certificate.....	884
Information Assurance Graduate Certificate	886
Instructional Technology: Web Design Graduate Certificate	888
Integrative Pain Management Graduate Certificate	889
Latin American & Caribbean Studies Graduate Certificate.....	891



Leadership for Coastal Resiliency Planning Graduate Certificate	893
Leadership in Higher Education Graduate Certificate	895
Life Science Entrepreneurship Graduate Certificate	897
Management of Non-Governmental and Non-Profit Organizations Graduate Certificate.....	899
Marriage & Family Therapy Graduate Certificate	901
Maternal & Child Health Graduate Certificate	903
Medicine and Gender Graduate Certificate	905
Nanopharmaceutics Graduate Certificate	907
National Security Studies Graduate Certificate	909
Nursing Education (Post Master's) Graduate Certificate.....	911
Online Teaching and Learning Graduate Certificate	913
Pathology Graduate Certificate	914
Pathway to Computing Graduate Certificate.....	915
Pharmacoepidemiology Graduate Certificate	917
Pharmacy Entrepreneurship, Leadership & Management Graduate Certificate.....	919
Positive Behavior Support Graduate Certificate.....	921
Post Graduate Family Health Nurse Practitioner Graduate Certificate	923
Pre-Professional Pharmacy Graduate Certificate	925
Professional and Technical Communication Graduate Certificate.....	927
Project Management Graduate Certificate	929
Psychiatric-Mental Health Nurse Practitioner (Post Master's or DNP) Graduate Certificate	930
Public Health Generalist Graduate Certificate	932
Public Health Policy & Programs Graduate Certificate	934
Public Management Graduate Certificate	936
Qualitative Research Graduate Certificate	938
Reading Endorsement Graduate Certificate	939
Scholarly Excellence, Leadership Experiences, & Collaborative Training (S.E.L.E.C.T) Graduate Certificate	941
Semiconductor Technology and Manufacturing (STeM) Graduate Certificate	943
Smart City Technology Graduate Certificate.....	945
Social Marketing and Social Change Graduate Certificate	946
Social Work Therapeutic Modalities Graduate Certificate	948
Statistical Data Analysis Graduate Certificate	949
Strategic Intelligence Graduate Certificate.....	950
Sustainable Business Graduate Certificate.....	952



Sustainable Tourism Graduate Certificate	954
Sustainable Transportation Graduate Certificate.....	956
Systems Engineering Graduate Certificate	958
Teacher Leadership for Student Learning Graduate Certificate	959
Teaching & Communicating Ocean Sciences Broader Impacts Graduate Certificate.....	960
Teaching in Pharmacy & Pharmaceutical Sciences Graduate Certificate	962
Teaching of Digitally-Enhanced Middle Grades Mathematics Education Graduate Certificate	964
Technology Management Graduate Certificate	965
Toxicology Graduate Certificate	967
Translational and Clinical Research in Pharmacy Graduate Certificate	969
Translational Research in Adolescent Behavioral Health Graduate Certificate	971
Transportation Systems Analysis Graduate Certificate	973
Water Sustainability Graduate Certificate.....	974
Water, Health and Sustainability Graduate Certificate.....	976
Wireless Engineering Graduate Certificate	978
Women's, Gender, and Sexuality Studies Graduate Certificate	980
Programs by College/Department	982
College of Arts and Sciences	982
Dean's Office (AC)	984
American Culture & Society Graduate Certificate	985
Applied Linguistics Graduate Certificate	986
Cellular Therapies Graduate Certificate	988
Community Development Graduate Certificate	990
Comparative Literary Studies Graduate Certificate.....	992
Creative Writing Graduate Certificate.....	994
Cyber Intelligence Graduate Certificate.....	996
Data Analysis (Psychology) Graduate Certificate	998
Data Science for Public Administration Graduate Certificate	1000
Digital Humanities Graduate Certificate	1002
Environmental Policy & Management Graduate Certificate.....	1003
Film & New Media Studies Graduate Certificate.....	1005
Florida Studies Graduate Certificate	1006
Food Writing and Photography Graduate Certificate.....	1008
Geographic Information Science Graduate Certificate.....	1009