

DEGREE REQUIREMENTS⁺
BACHELOR OF SCIENCE IN DIGITAL ARTS AND SCIENCES (DAS)
FOR STUDENTS ENTERING CATALOG YEAR 2006 OR LATER
COLLEGE OF ENGINEERING, UNIVERSITY OF FLORIDA

GENERAL EDUCATION***

Composition (ENC 3254).....3	Humanities (ARH 2051)*.....6-9
Social and Behavioral Sciences*.....6-9	International and Diversity Studies (ARH 2051)**6

- * Both categories combined must total 15 hrs with no fewer than six hours in either category.
 ** These courses may be selected from courses that simultaneously fulfill the general education area requirement in social and behavioral science (S) and humanities (H).
 *** The mathematics, physical and biological science requirements are covered by the departmental requirements below.

DEPARTMENTAL REQUIREMENTS

Mathematics (18/19)

MAC 2311 Analytic Geometry & Calculus 1	4
MAC 2312 Analytic Geometry & Calculus 2	4
MAC 2313 Analytic Geometry & Calculus 3	4
<u>MAP 2302 Elementary Differential Equations (Cal 2)</u>	<u>3</u>
MAS 3114 Comp. Linear Algebra (Cal 2 & prog. lang. exp)	3
OR MAS 4105 Linear Algebra 1 (Cal 3)	4

Physics (8)

PHY 2048 Physics w/Cal 1 (HS Physics, Cal 1; <u>Cal 2, PHY2048L</u>)	3
PHY 2048L Lab for PHY 2048 (<u>PHY 2048</u>)	1
PHY 2049 Physics w/Cal 2 (PHY 2048; <u>Cal 3, PHY 2049L</u>)	3
PHY 2049L Lab for PHY 2049 (<u>PHY 2049</u>)	1

Chemistry(4)

CHM 2045 General Chemistry (CHM 1025; or passing grade on chem. readiness exam; <u>CHM 2045L</u>)	3
CHM 2045L Lab for CHM 2045 (<u>CHM 2045</u>)	1

Art Required Courses (6)

ART 2305C Perceptual Drawing	3
ART 2701C Sculpture: Form & Space	3
OR ART 2757C Ceramics: 3D Conceptualization	3
OR Selected other Sculpture or Ceramics studios	3

DAS Courses (18)

CGS 3032 Interactive Modeling and Animation	3
CGS 3034 Intro to Computer-Aided Animation	3
CGS 3220 Intro to Computer-Aided Modeling	3
CAP 3027 Intro to Digital Arts & Science	3
CAP 3020 Theory & Pract of Multimedia Prod (CAP3027, S)	3
CIS 4914 Senior Project (<u>Senior</u>).....	3

Interdisciplinary Electives (14[±] or 15)-advisor approval

At least six hours must be at the 3000-level or above. Students should use this requirement to concentrate within a specific DAS-related area (e.g., Film Studies, Modeling & Animation, Media Production, Architecture, Music, etc.). ID Electives can be the following:

- Additional Group-A CISE Electives (4k-level or higher)
- CGS3220 and CGS3034
- Fine Arts, Theatre, Music (except MUL2010), Architecture (except ARC1701 and ARC1702), or any course with a DIG prefix
- Any approved course listed under the Film and Media Studies Major (<http://www.film.ufl.edu/courses.html>)
- Any 3k-level or higher ECE (prefix EEL) course (6 hrs max)
- Any 4k-level math or statistics course with the prefix STA, MAA, MAD, MAP, MAS OR MHF not taken to fulfill any other requirement (**COT 4501** and **MAD 4401** may not both be taken; **COT 4420** and **MAD 4504** may not both be taken; Take only ONE of these: **COT 3100**, **MAD 4203**, or **MAD 3107**), (6 hrs max).
- Up to three hours of a "repeatable" course, such as non-CISE independent study (xxx4905), a musical instrument, ensemble, marching and symphonic band, choir, etc.

*Catalog years 2003 and 2004 are only required to take 14 ID Elective credits because EEL3701C (4 credits) is a CISE Required Course (see next section); Students can move forward in catalog year in order to take both COT4501 and CDA3101, but a student cannot move backwards.

CISE Required Courses (22^S)

CIS 3020 Adv Prgm Fund for CIS Majors (Cal 1, prgm exp.)	3
OR <u>CIS 3023 Programming for CIS majors II (CIS 3022, Cal 1)</u>	3
COT 3100 Appl. of Discrete Structures (Cal 1, <u>CIS 3020</u> or <u>CIS3023</u>) ...	3
COP 3530 Data Struct & Algorithms (CIS 3020/23, COT 3100, Cal 2)	4
CEN 3031 Intro to Software Engineering (COP 3530)	3
CAP 4730 Computational Structure in C. Graphics (COP 3530, S) ...	3
CAP 4800 System Simulation (COP 3530, F)	3
COP 4020 Programming Language Concepts (COP 3530, S) ...	3
OR COP4600 Operating Systems (COP 3530, CDA 3101)	3

§Catalog Years 2001, 2002, 2005 or Later (6)

CDA 3101 Intro to Comp Organization (Cal 1, CIS 3020/23)	3
COT 4501 Numerical Analysis (CIS 3020/23, MAS 3114)	3

§Catalog Years 2003, 2004 (7)

<u>EEL 3701C Digital Logic & Computer Systems (CIS 3020/23) .</u>	<u>4</u>
CDA 3101 Intro to Comp Organization (Cal 1, CIS 3020/23)	3
OR COT 4501 Numerical Analysis (CIS 3020/23, MAS 3114).....	3

CISE Electives (6)

At least (3) credits must come from Group A. The remaining (3) credits may come from either Group A or B.

Group A:

CAP 4410 Digital Image Processing (COP 3530, F)	3
CAP 4621 Artificial Intelligence & Heuristics (COP 3530, F)	3
CDA 4102 Computer Architecture (CDA 3101, COP 3530)	3
CEN 4500C Comp. Network Fund (COP 4600)	3
CIS 4301 Info & Database Sys Design & Dev 1 (3020/3023, 3100) 3	
CIS 4940 Internship (Advisor approval)	1
CIS 4949 Co-op Work (Advisor approval)	1
COP 4331 Object-oriented Programming (COP 3530)	3
CAP 4403 Aesthetic Computing (COP 3530).....	3
CIS 4930 HCI, Virtual Environments	3
OR Selected other Special Topics Courses	

CIS 4905 Individual Study in CISEvar 1-4
Any 5000-level CISE course	

Group B:

CIS 3022 Programming for CIS Majors I (<u>Cal 1</u>).....	3
CGS 3460 Computer Programming Using C	3
CGS 3464 Computer Programming Using C++ (CIS3020 or CIS3023) ..	3

NOTES:

- **CIS 3020 is not equivalent to CIS 3023. Any student who takes CIS 3022 must then take CIS 3023. If a student takes CIS 3022/3023 sequence, then they do not have to take CIS 3020.**
- **ENC 3254, CIS 3020, and CIS 3023 must be completed with a C or better.**
- **Courses in parenthesis are prerequisites; underlined courses are corequisites.**
- **An Exit Interview is required during your last semester. Please see one of the department academic advisors.**
- **For additional tracking requirements please refer to the College of Engineering section in the Undergraduate Catalog.**
- **Students pursuing a math minor may substitute MAD4401 for COT4501.**
- **F = Fall or S = Spring, the semester the course is only offered**