**Visualization - BS**

### Program Requirements

#### First Year

**Fall**
- **ARTS 115** Drawing for Visualization \(^1\)  
- **MATH 150** or **MATH 151** Functions, Trigonometry and Linear Systems or Engineering Mathematics I  
- **VIST 105** Principles of Design I \(^1\)  
- **VIST 131** First Year Seminar \(^1\)  
- **VIST 172** Foundations of Visual Computing \(^1\)  

**Semester Credit Hours**: \(14\)

**Spring**
- **ARTS 149** or **ARTS 150** Art History Survey I \(^1\) or Art History Survey II  
- **MATH 151** or **MATH 152** Engineering Mathematics I or Engineering Mathematics II  
- **VIST 106** Principles of Design II \(^1\)  
- **VIST 110** Design Innovation \(^1\)  
- **VIST 173** Foundations of Visual Computing II \(^1\)  

**Semester Credit Hours**: \(16\)

#### Second Year

**Fall**
- **ARTS 339** Themes in Contemporary Art \(^1\) or **ARTS 349** The History of Modern Art  
- **PHYS 201** College Physics  
- **VIST 210** Time and Interaction \(^1\)  
- **VIST 272** Visual Computing \(^1\)  
- **VIST 275** Production Techniques \(^1\)  

**Semester Credit Hours**: \(16\)

**Spring**
- **ENGL 104** Composition and Rhetoric  
- **VIST 206** Visual Studies Studio I \(^1\)  
- **Life and physical sciences** (except 301, 311, 331, 494).  
- **Directed elective** \(^1,2\)  
- **Supporting elective** \(^1,3\)  

**Semester Credit Hours**: \(16\)

#### Third Year

**Fall**
- **VIST 305** Visual Studies Studio II \(^1\)  
- **VIST 339** Research Techniques in Visualization \(^1\)  

**Semester Credit Hours**: \(16\)

**Spring**
- **VIST 301** or **VIST 494** Field Studies in Design Innovation \(^1,4\) or Internship  
- **Language, philosophy and culture** (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) \(^1\)  
- **Supporting elective** \(^1,3,4\)  
- **General elective** \(^1,4,5\)  

**Semester Credit Hours**: \(15\)

**Fourth Year**

**Fall**
- **HIST 105** History of the United States  
- **VIST 405** Visual Studies Studio III or **VIST 409** Capstone Studio  
- **Government/Political science** (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)  
- **Directed elective** \(^1\)  
- **Supporting elective** \(^2\)  

**Semester Credit Hours**: \(15\)

**Spring**
- **HIST 106** History of the United States  
- **VIST 409** Capstone Studio \(^1\)  
- **Government/Political science** (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)  
- **Life and physical sciences** (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences)  
- **Directed elective** \(^1,2\)  

**Semester Credit Hours**: \(13\)

**Total Semester Credit Hours**: \(120\)

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1. **Must make a grade of C or better.**
2. **Select from ARTS 210, ARTS 212, ARTS 303, ARTS 304, ARTS 305, ARTS 308, ARTS 312, ARTS 315, ARTS 325, ARTS 328, ARTS 341, ARTS 353, VIST 235, VIST 282, VIST 283, VIST 284, VIST 310, VIST 357, VIST 370, VIST 372, VIST 386, VIST 439, VIST 465, VIST 470, VIST 472, VIST 474, VIST 476/CSCE 447, VIST 477/CSCE 446, VIST 480, VIST 487/CSCE 443.**
3. **Select from ARTS 200-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/arts/); VIST 200-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/vist/) (except 301, 311, 331, 494).**
4. **Semester Away: May be satisfied by study abroad, at another university, internship, or special arrangement by advisor or instructor. Electives may be taken online, distance education, at another university or college, or at study abroad university.**
5. **Select from any 300-499 course not used elsewhere. If you do not participate in study abroad, 3 hours will come from International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/).**
Students must also make a grade of C or better in any course used as an equivalent substitution for Visualization courses that satisfy degree requirements.