Graphic Information Technology (Full-Stack Web Development), BS

Program Description

The BS program in graphic information technology with a concentration in full-stack web development focuses on front-end and back-end website and application development. This cross-disciplinary program has a foundation in user-centered design and client-side scripting (HTML, CSS, JS) and extends to server-side programming (PHP, Python, SQL, etc.).

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Polytechnic or Online, ASU Local
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 117 - College Algebra
- **Math Intensity:** Moderate

Required Courses (Major Map)

- 2023 - 2024 Major Map (On-campus)
- 2023 - 2024 Major Map (Online)
- Major Map (Archives)

Concurrent Program Options
Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

**Accelerated Program Options**

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's plus master's degree with:

- Graphic Information Technology, MS

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and **how to apply**.

**Admission Requirements**

**General University Admission Requirements:**
All students are required to meet general university admission requirements.

- [First-year](#) | [Transfer](#) | [International](#) | [Readmission](#)

**Tuition Information**

When it comes to paying for college, everyone's situation is different. Students can learn about **ASU tuition and financial aid** options to find out which will work best for them.

**Change of Major Requirements**

A current ASU student has no additional requirements for changing majors.

Students should visit the [Change of Major form](#) for information about how to change a major to this program.

**Attend Online**

**ASU Online**

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may [view the programâs ASU Online page](#) for program descriptions and to request more information.

**ASU Local**

It is now possible to earn an ASU degree with **ASU Local**, an integrated college experience in which students take advantage of in-person success coaching and programming experiences on site while
completing one of 130+ undergraduate online degree programs, all of which come with online faculty interaction and tutoring support.

Transfer Options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use MyPath2ASU® to outline a list of recommended courses to take prior to transfer.

ASU has transfer partnerships in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey.

Program Learning Outcomes

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Analyze accepted coding and design techniques to apply the most appropriate to web design and development solutions.
- Demonstrate ability to guide a project through a development cycle using industry-standard tools and techniques.
- Implement individually- and collaboratively-built components into cohesive solutions for web design and development challenges.
- Display ability to build and evaluate effective user interactions in web-based systems.

Global Opportunities

Global Experience

With over 300 programs in more than 65 countries (programs vary in length, from one week to one year), study abroad is possible for all ASU students who wish to acquire global skills and knowledge in preparation for their career. Students earn ASU credit for completed courses, while staying on track for graduation, and they may apply financial aid and scholarships toward program costs. More information on available programs can be found on the Global Education Office website.

Career Opportunities

Since 2015, hiring growth for the full-stack engineer profession has been 35% every year. Indeed ranked full-stack developer as the second best job for 2020, with the percentage of growth from 2018 to 2019 at more than 161% (https://www.indeed.com/lead/best-jobs-2020).

Indeed also listed the top 10 skills for a full-stack developer, nine of which are taught within the full-stack web development concentration curriculum. The program goes beyond these as well, giving students opportunities to learn additional technologies, further preparing them for jobs upon graduation.

Top industries where graduates land include computer software, IT, financial services and higher education. Google, eBay, Verizon, IBM and Capital One are among the top companies hiring full-stack developers (according to Glassdoor at https://www.glassdoor.com/Explore/browse-companies.htm?overall_rating_low=3.5&page=1&isHiringSur).

Career example titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience, geographical location, and required advanced degrees or certifications may affect pay scales.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Programmer</td>
<td></td>
<td>$97,800</td>
</tr>
<tr>
<td>IT Project Manager</td>
<td>9.7%</td>
<td>$98,740</td>
</tr>
<tr>
<td>SEO Specialist</td>
<td>13.4%</td>
<td>$68,230</td>
</tr>
<tr>
<td>Software Developer</td>
<td>25.7%</td>
<td>$127,260</td>
</tr>
<tr>
<td>Web Developer</td>
<td>17.0%</td>
<td>$78,580</td>
</tr>
</tbody>
</table>

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

🌞 Bright Outlook

Contact Information

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