



### 1<sup>st</sup> Year Launcher Course

- Build foundation of EM
- Practice design thinking
- Reflect as an engineering skill
- Folio thinking

*Learn about it, try it out,  
habitually reflect*

### BME Core Courses

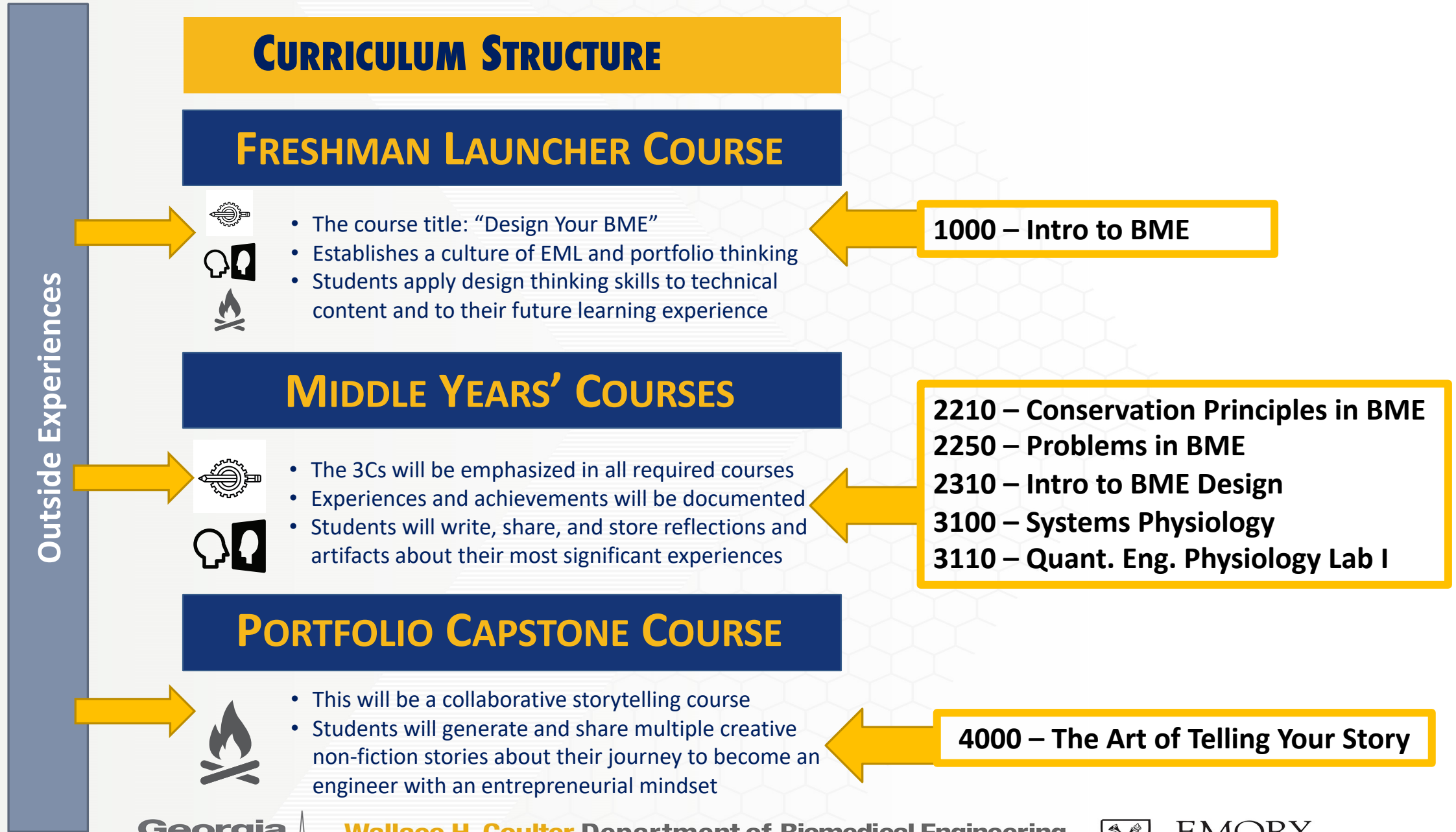
- Have EM experiences
- Build a library of experiences and artifacts

*Practice behaving like an  
EM engineer*

### 3<sup>rd</sup> Year Storytelling Course

- Integrate and reflect on experiences
- Create and curate unique stories of EM growth
- Story-Driven Learning (SDL)

*See yourself as  
an EM engineer*



Gateway Course	Signature Assignment Description	Potential artifacts for portfolio from signature assignment	Topic for outside experiences pulled into the signature assignment or course	Social pedagogy incorporated into signature assignment
1000 – Intro to BME	Creating the BMED 1000 portfolio focused on EM growth over first semester	<ul style="list-style-type: none"> <li>• Reflections</li> <li>• BME Insider Activity</li> <li>• Two design projects</li> </ul>	<ul style="list-style-type: none"> <li>• Practical competence</li> </ul>	<ul style="list-style-type: none"> <li>• BMED 1000 showcase with feedback from showcase attendees</li> </ul>
2210 – Conservation Principles in BME	Raise curiosity of bias in engineering and use this to identify opportunities to create value for others	<ul style="list-style-type: none"> <li>• Reflections</li> </ul>	<ul style="list-style-type: none"> <li>• Interpersonal experiences</li> </ul>	<ul style="list-style-type: none"> <li>• Peer feedback</li> <li>• Compile all products into a public collection to share</li> </ul>
2250 – Problems in BME	A series of reflections based on EM at each phase of project	<ul style="list-style-type: none"> <li>• Reflections</li> </ul>	<ul style="list-style-type: none"> <li>• Team experiences</li> </ul>	<ul style="list-style-type: none"> <li>• Peer feedback on final reflection pitches</li> <li>• Teamwork feedback discussions</li> </ul>
2310 – Intro to BME Design	Teams create a pitch video to communicate opportunity identified, solution, and value proposition	<ul style="list-style-type: none"> <li>• Video</li> <li>• Team website (extra credit)</li> </ul>	<ul style="list-style-type: none"> <li>• Persistence and learn through failure - connected through DEEM chart and reflection</li> </ul>	<ul style="list-style-type: none"> <li>• Share videos</li> <li>• Design feedback from peers and users</li> </ul>
3100 – Systems Physiology	New England Journal of Medicine case study analysis	<ul style="list-style-type: none"> <li>• Analysis of the case analyses over the course of the semester</li> </ul>	<ul style="list-style-type: none"> <li>• Career path</li> </ul>	<ul style="list-style-type: none"> <li>• Problem solving studio format with case discussions</li> </ul>
3110 – Quantitative Eng. Physiology Lab	Learning from difference working on teams to create value with 3Cs in a journal club	<ul style="list-style-type: none"> <li>• Reflections and video</li> </ul>	<ul style="list-style-type: none"> <li>• Learning from differences-forming a team to create the most value</li> </ul>	<ul style="list-style-type: none"> <li>• Sharing their experiences across groups and peer feedback</li> </ul>
Academic Office Workshops/Activities	Various topics depending on workshop, internship reflections, research experience reflections	<ul style="list-style-type: none"> <li>• Pitch</li> <li>• Portfolio</li> <li>• LinkedIn</li> </ul>	<ul style="list-style-type: none"> <li>• Professional development</li> </ul>	<ul style="list-style-type: none"> <li>• Practice at workshops, presentations with feedback</li> </ul>
4000 – The Art of Telling Your Story	Creating the EM growth portfolio (a collection of autobiographical stories)	<ul style="list-style-type: none"> <li>• Anything from their library of artifacts and stories</li> </ul>	<ul style="list-style-type: none"> <li>• SUMMATIVE</li> </ul>	<ul style="list-style-type: none"> <li>• Story Showcase</li> </ul>