



VICEROY

***DoD Electromagnetic and Cyber Research
and Experiential Education***

June 16th 2023

Information Session

VICEROY DECREE VI

- Provide robust experiential research and education opportunities to build knowledge, skills, and abilities in DoD-relevant cybersecurity, EMS, data science, cryptography, and strategic foreign languages

Funding for VICEROY Decree provided by the Office
of the Undersecretary of Defense for Research and Engineering,
in collaboration with the Air Force Research Laboratory and
Griffiss Institute



DECREE Virtual Institute Consortium

- Northeastern University –
 - CAE-CD , CAE-CO, CAE-R
 - Army and Navy ROTC
 - BS, Minor, MS and Ph.D
- Northern Arizona University
 - Hispanic Serving Institution (HSI)
 - Army and Air Force ROTC
 - BS, Minor, MS and Graduate Certificate in Cyber
- University of South Carolina
 - Army, Navy, and Air Force ROTC
 - BS in Cyber Intelligence, Concentration and Graduate Certificate in Cyber Operations
- University of Houston
 - Hispanic Serving Institution (HSI)
 - Asian American Native American Pacific Islander – Serving Institute (AANAPISI)
 - Army and Air Force ROTC
 - Certificate and MS in Cyber



Scholarship Program and Curricula

- Each partner university selects limited number of scholars
- Based on major fields of study
 - Curricular achievements
 - ROTC achievements
 - Marginalized, and/or historically underrepresented students
- Up to \$10,000 scholarships
- Each scholar is required to complete 8-10 credits
 - One course taken at different institution
- Coursework must be completed by Spring 2024



Scholarship Program and Curricula

- **Application process**
 - based on VI common criteria & complemented by other criteria at home institution
- **Eligibility Criteria**
 - Must be undergraduate student enrolled full-time
 - (preferably sophomore or junior)
 - Must be security-clearance eligible
- **Transcript recognition**
 - Institutional recognition after completing VI credits
- **Graduate students' mentors**
 - Support on VI curriculum courses
 - Career mentorship



Scholarship Program and Curricula

- Multi-institution curriculum for all VI students
- Students earn course credits toward their “home degree”
- Courses will follow a virtual instructional method for *Visiting VI students*
- Course curriculum offer will be based on breadth and depth:

Breadth

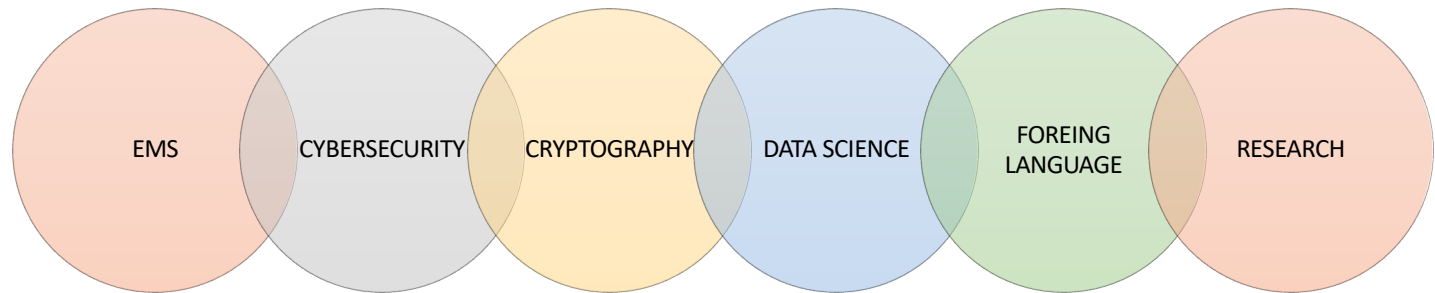
- Courses complement student’s background or skills

Depth

- Courses amplifying and extending existing student’s focus/background

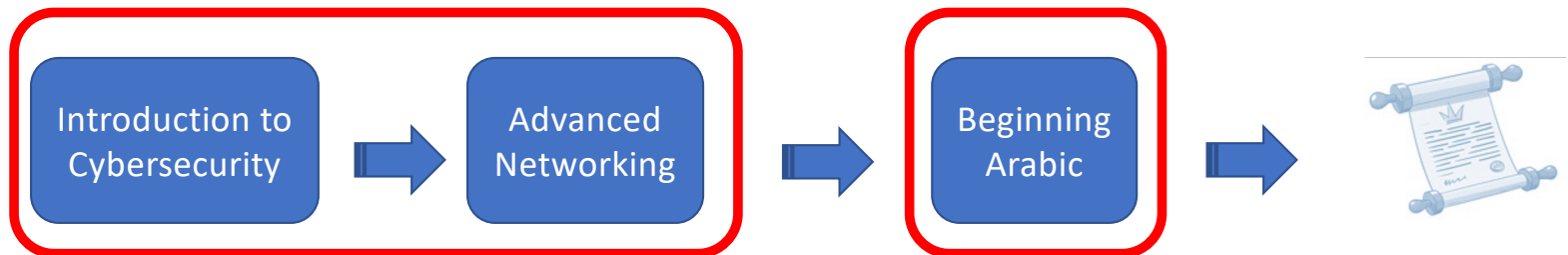


Scholarship Program and Curricula

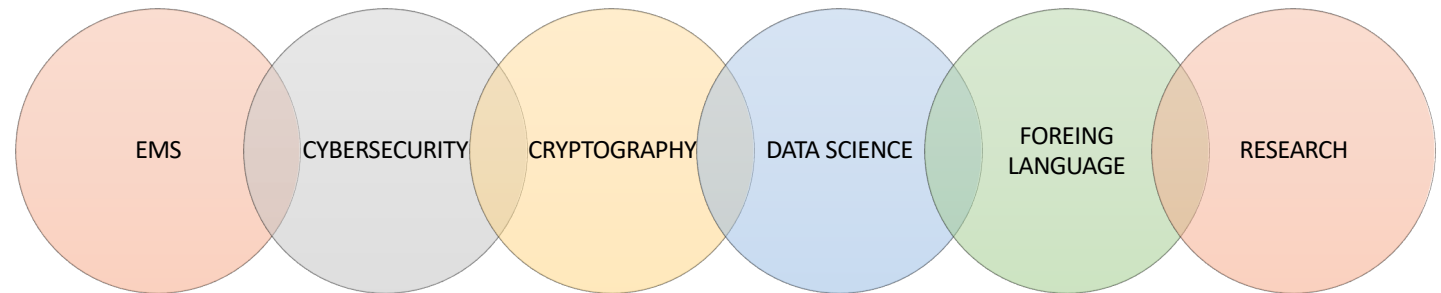


Junior in
Electrical
Engineering
Program

Academic Plan includes at least two different areas

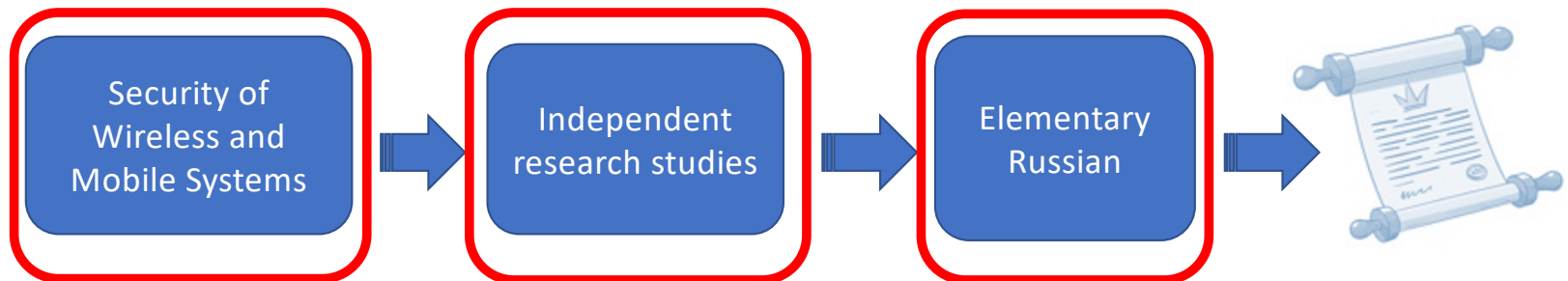


Scholarship Program and Curricula

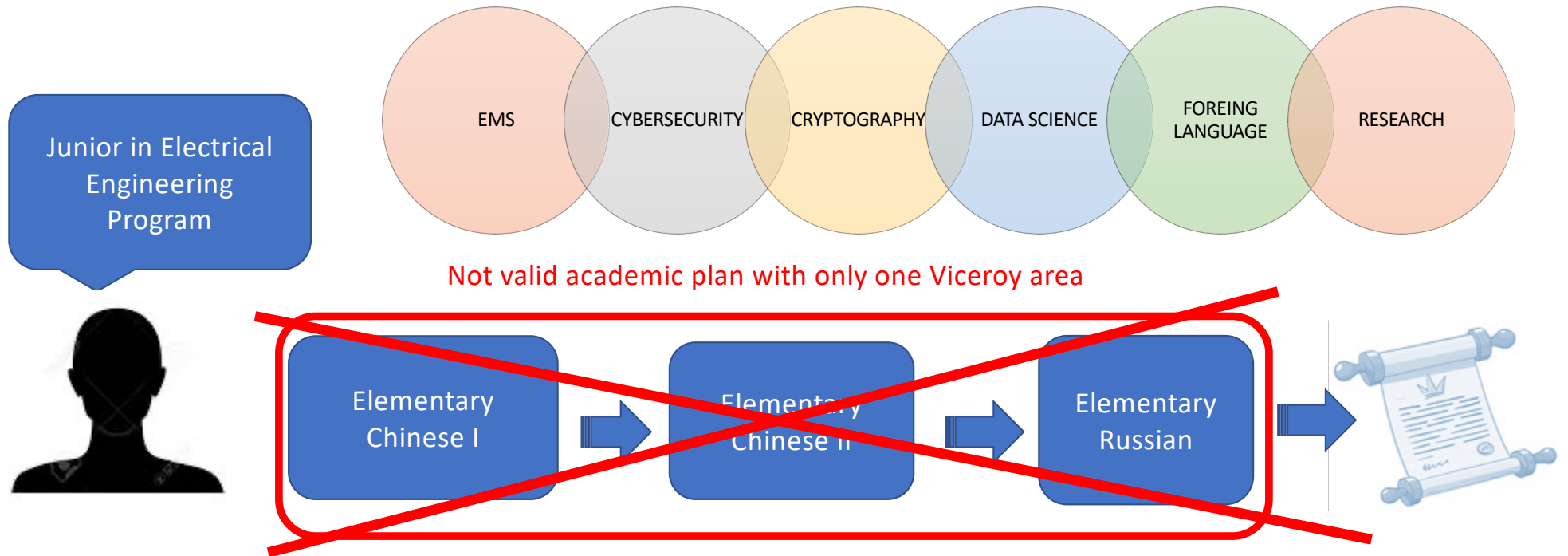


Academic Plan includes three Viceroy areas

Sophomore in
Computer Science
Program



Scholarship Program and Curricula



Scholarship Program and Curricula

Courses by topic and University

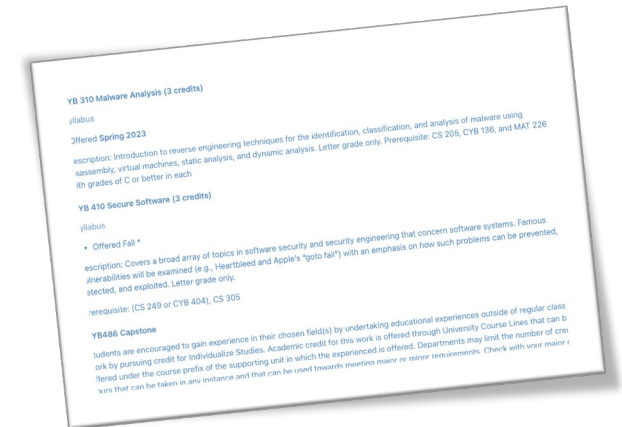
- VI curricula
(Offer may vary over semesters)

	NAU	NU	UofSC	University Houston
EMS	PHY 332 Electricity and Magnetism II	CY 4760 Security Wireless Mobile Systems	ITEC 445 – Advanced Networking	ECE 3317 Applied Electromagnetic Waves ECE 3318 Applied Electricity and Magnetism
Cyber	CYB 310 Malware Analysis CYB 410 Secure Software CYB 126/136 Secure Design I/II	CY 4930: Cybersecurity Capstone CY 3740/CY 5130: Systems Security		ECE 5357 Introduction to Cybersecurity
Crypto	INF 638 Cryptography and PKI CYB 402 Applied Cryptography			
Data Science		DS 3000 Found. Of Data Science DS 3500 Advanced Programming with Data		
Strategic Language		CHNS 1101/1102 Elementary Chinese 1&2	RUSS 121 Elementary Russian	
Research	CS485 Undergraduate Research	CY 2991. Research in Cybersecurity	ITEC 564 Capstone Project	



Scholarship Program and Curricula

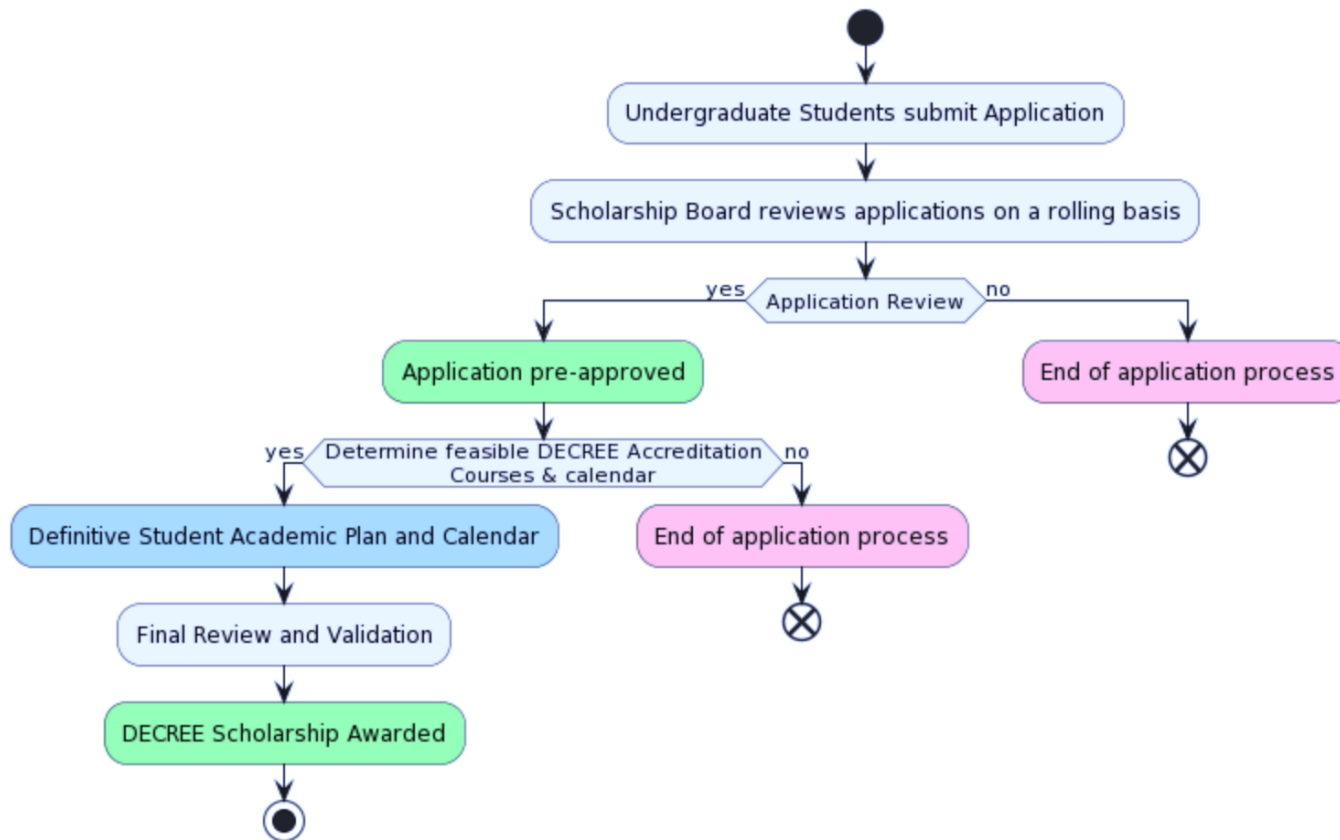
- Courses included in the VI curricula provide
 - Syllabus
 - Content
 - Required background
 - Academic prerequisites
 - Intended skills
- Viceroy courses needs to be taken as part of full-time course load
 - Trying to overload (taking it as a fifth class) or taking it on co-op, means the student will need to pay for the course.



<https://nu-decree.github.io/list.html>



Application process



Scholars' responsibilities



Complete VI courses



Meet regularly with their DECREE VI mentors (bi-weekly)



Participate in DECREE Seminars and Events (monthly)



Participate in program evaluation activities (quarterly)



Participate in the annual VI engagement symposia (annually)



AND stay connected



Apply for DECREE VI scholarship

- Go to our Web page
(<http://nu-decree.github.io>)
- Application Components:
 - 1. Letter of Recommendation
 - 2. Short essay responses
 - 3. Resume
 - 4. Transcript
 - 5. Application form
- Priority Application Deadline is June 23rd



Stay Connected

- ✓ <https://nu-decree.github.io>
- ✓ <https://nu-decree.github.io/#calendar->
- ✓ <https://nu-decree.github.io/list.html>





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