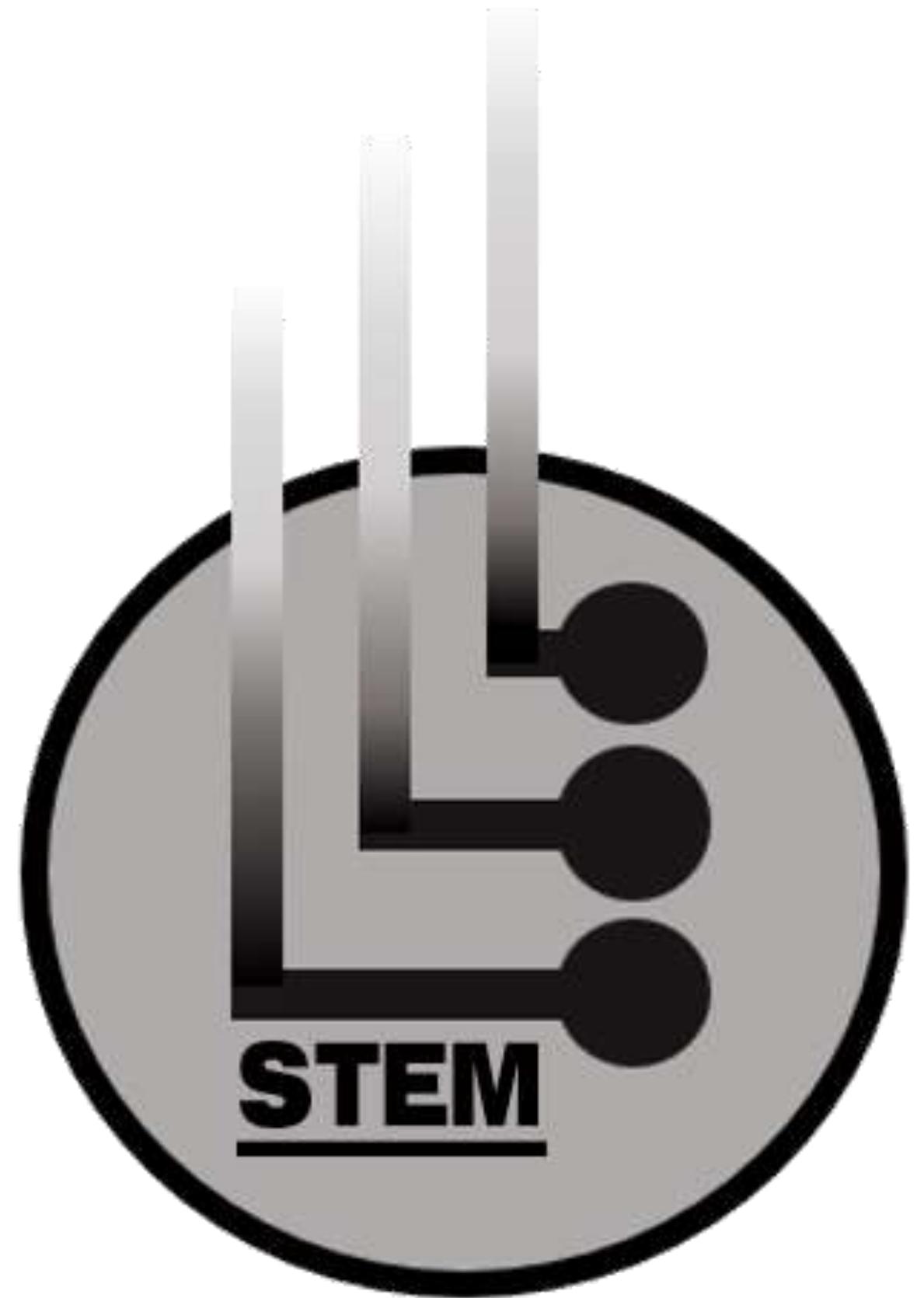


# **STEM DESIGNS:**

**CHRISTENBURY  
MEMORIAL  
GYMNASIUM  
RENOVATION**

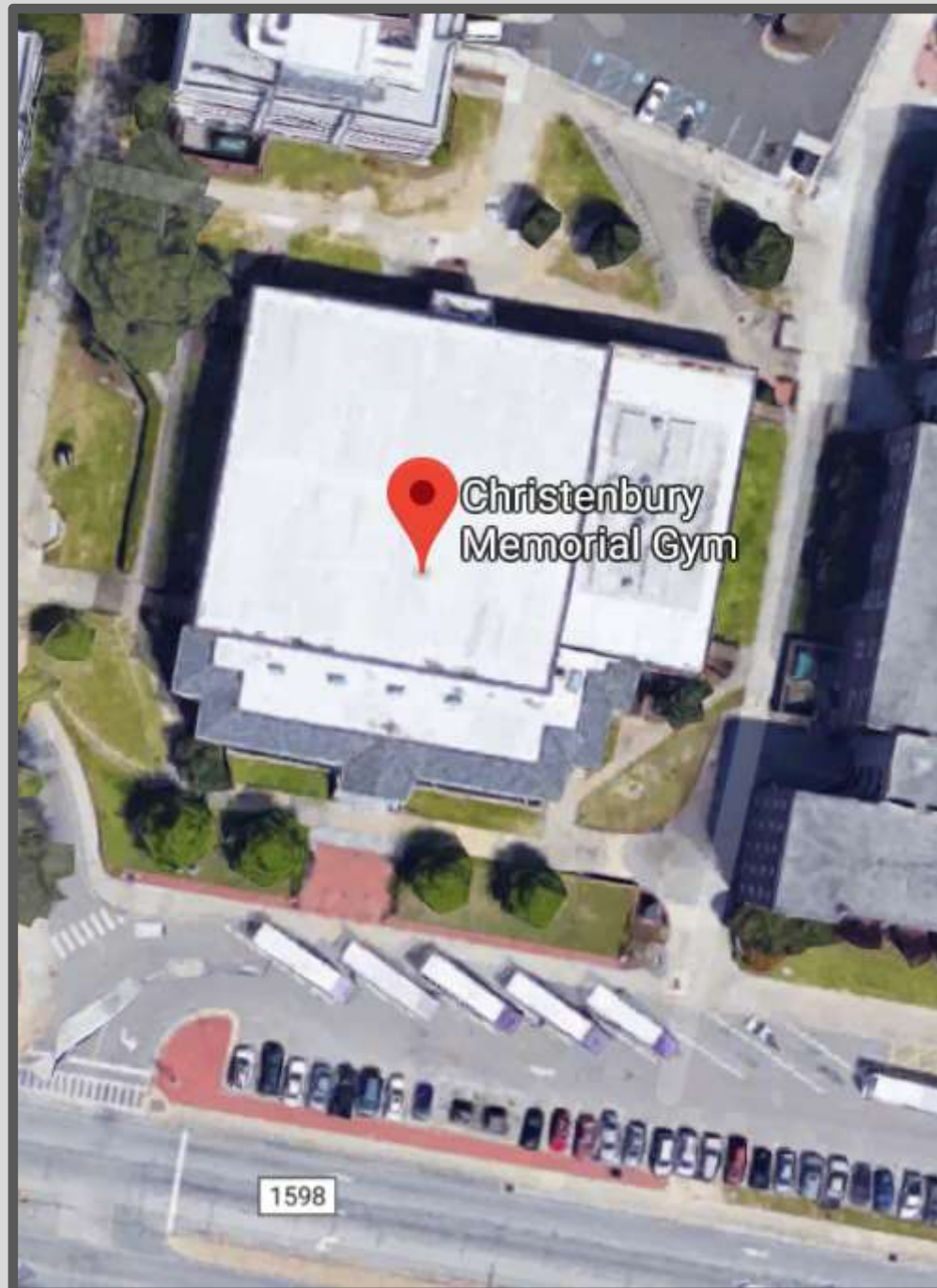
## **TEAM:**

- Madelyn Wood**
- Savannah Johnson**
- Jacqueline Rossi**



# **SITE DEVELOPMENT:**

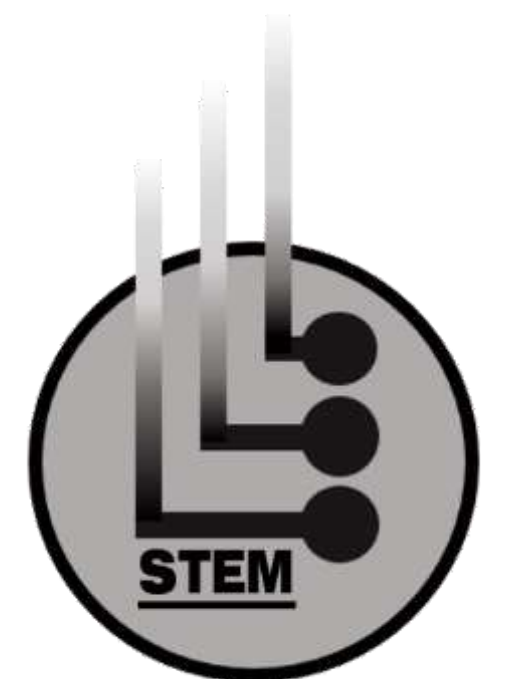
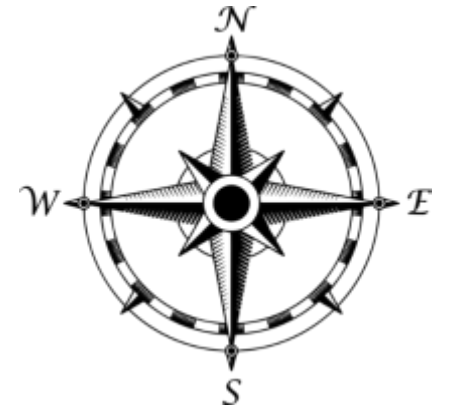
**EAST SIDE OF BUILDING - RECIEVES  
MOST INTENSE LIGHTING**



**FRONT OF BUILDING**

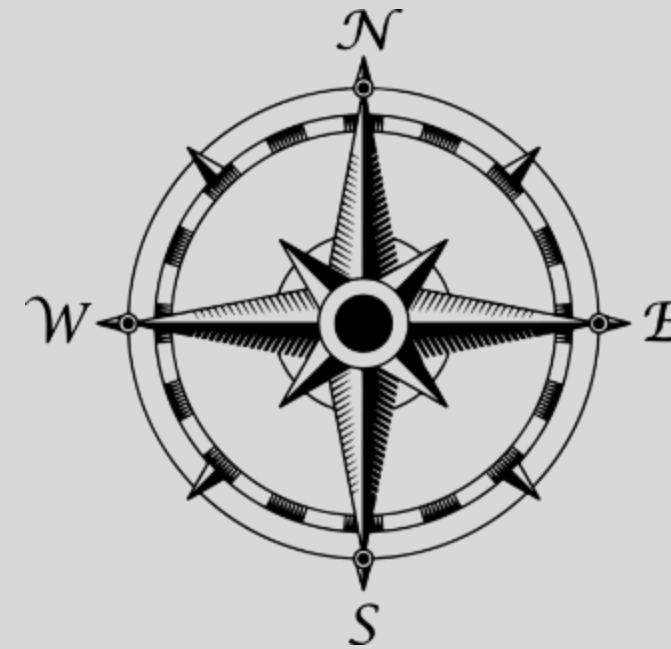


**VIEW FACING SOUTH**





## VIEW FACING NORTH

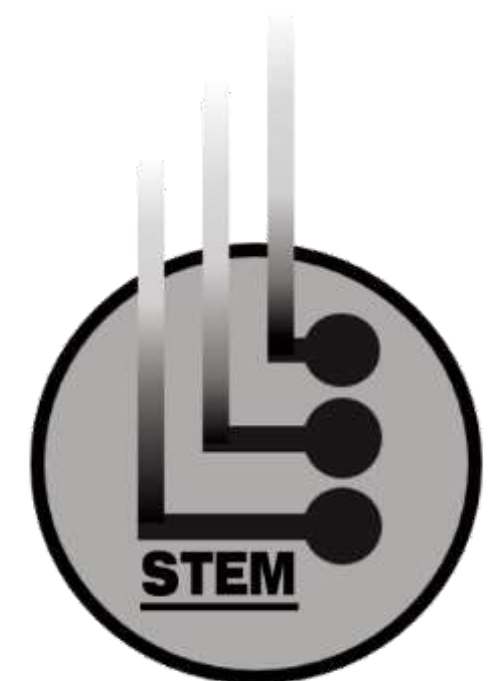


**“John Boyd Christenbury (February 13, 1907 – July 17, 1944) was East Carolina Teachers College sixth head football coach. He was also the head basketball and baseball coach. He coached during the 1940 and 1941 seasons. His 1941 team went 7–0. This is currently the only time an ECU team has gone undefeated. He finished his two years with a 13–2 record. He did not coach in 1942 because of the outbreak of World War II. The Christenbury Memorial Gymnasium was named in the honor of Coach Christenbury on January 6, 1953. Christenbury was killed in an explosion at Port Chicago, California on July 17, 1944. He was inducted into the ECU Hall of Fame in 1993.”**

## VIEW FACING EAST



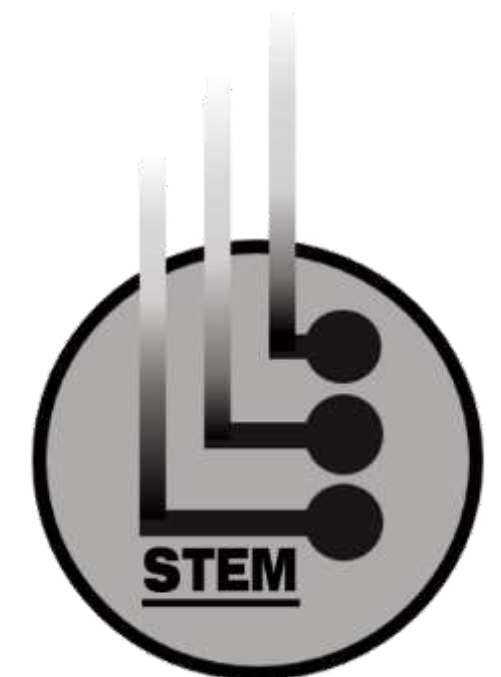
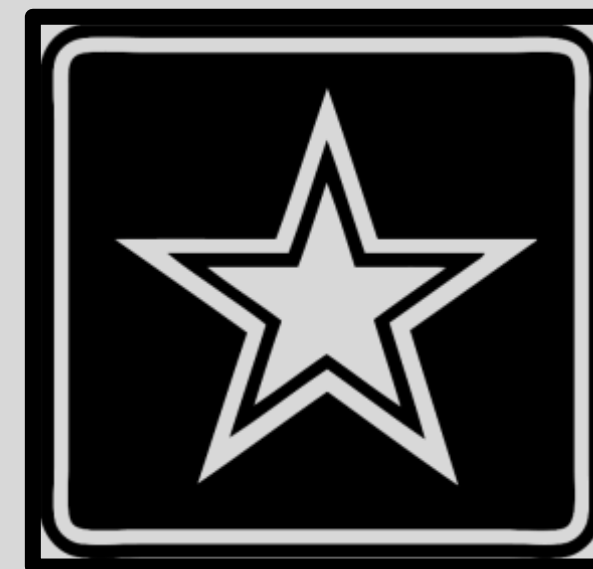
## VIEW FACING WEST



# **CONCEPT DEVELOPMENT:**

**Stem-Cell- (noun) – undifferentiated cell which is capable of giving rise to new life of the same type, and from which other variations may arise by differentiation.**

**For the purposes of Christenbury renovations, our main objective is to use the concept of stem-cell technology to represent the opportunity associated with the renewal of architectural forms. For the structure's current state, similar to stem-cells, the community must derive a solution that optimizes progress not only for existing users, but future participants as well.**





# PROGRAMMING:

Existing Function:	Existing Dimensions:	Proposed Function:	Proposed Dimensions:	Occupancy Type:	Load (sqft per person):	Maximum Occupancy	Number of Egress Points
gymnastics	4370	crossfit / trx	5176	Exercise	50 gross	103	3
pool	5390	pool (restored)	5390	Industrial	50 gross (water) 15 gross (surrounding)	107	4
educational	3460	office / presentation	2880	Assembly	20 net	114	2
office space	5100	office space	4800	Assembly	20 net	240	5
storage space	2616	storage space	2135	Storage	300 gross	7	2
corridor space	6613	corridor space	6600	Standing Space	15 net	440	8
restrooms	2465	restrooms / locker rooms	2925	Locker Room	50 gross	58	2
mechanical	1452	mechanical space	1500	Utility	300 gross	5	2
gymnasium + bleacher	13200	gymnasium	12078	Exercise	50 gross	241	8
simulators (army)	1000	simulators (army/af)	2330	Computer	1 per 300 sq ft	7	2
lounge area	700	lounge area	2195	Reading Room	50 net	43	2
		refreshment area	228	Business	150 gross	1	2
		medical / first aid closet	100	Storage	300 gross	N/A	N/A
		memerabilia	30	Exhibit Gallery	30 net	1	N/A
		elevator	22	Utility	300 gross	16	2

*Required Egress:	
1-500:	2
501-1000:	3
1000+:	4

\*gross - all square footage  
\*net - surrounding elements

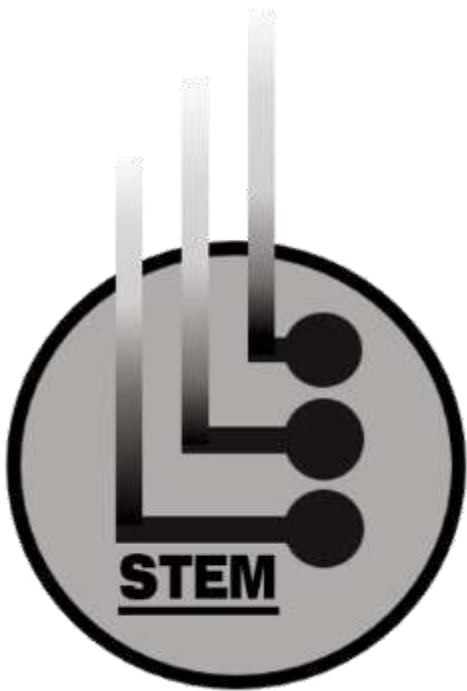
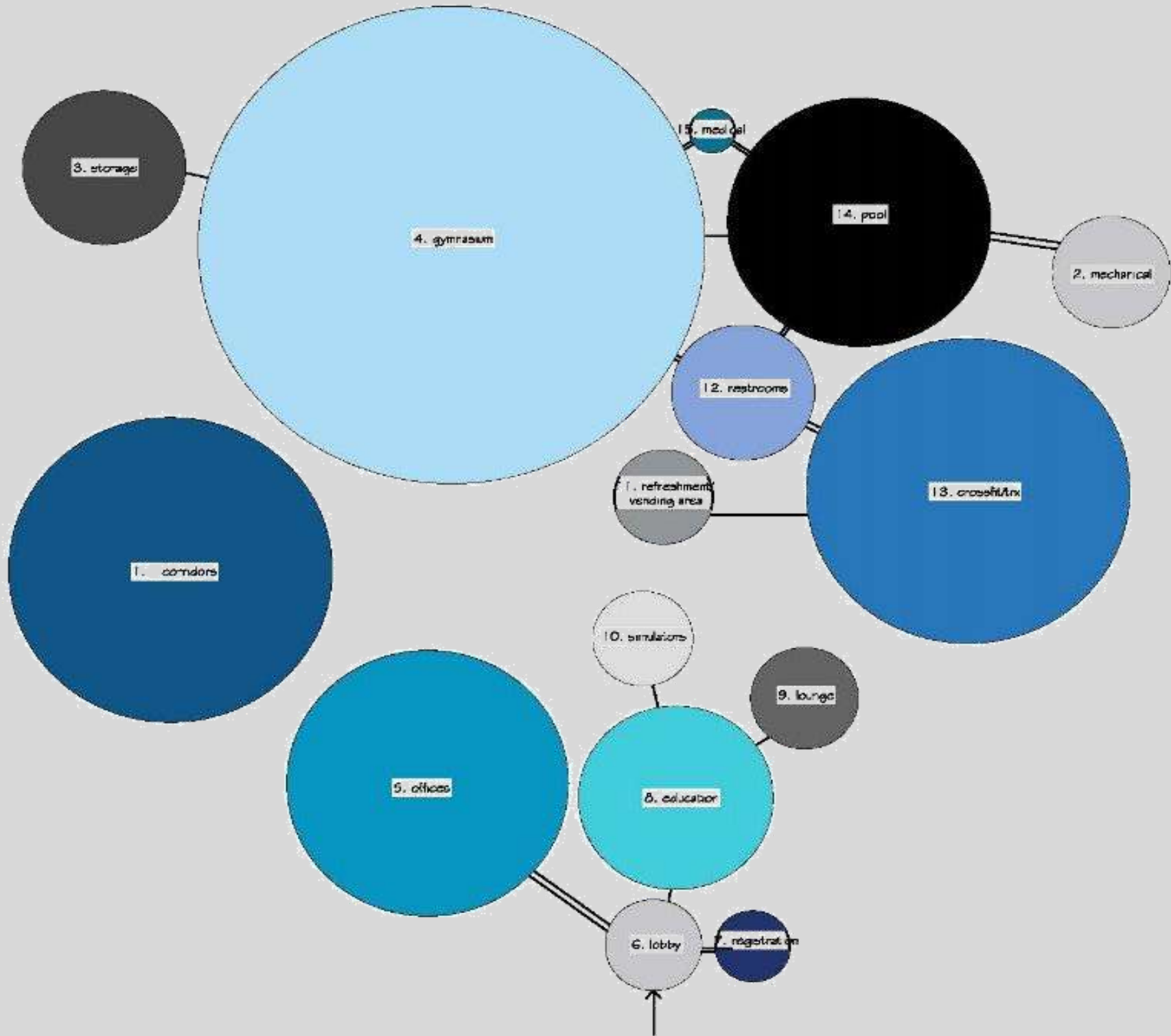






# SQUARE FOOTAGE ALLOTMENTS:

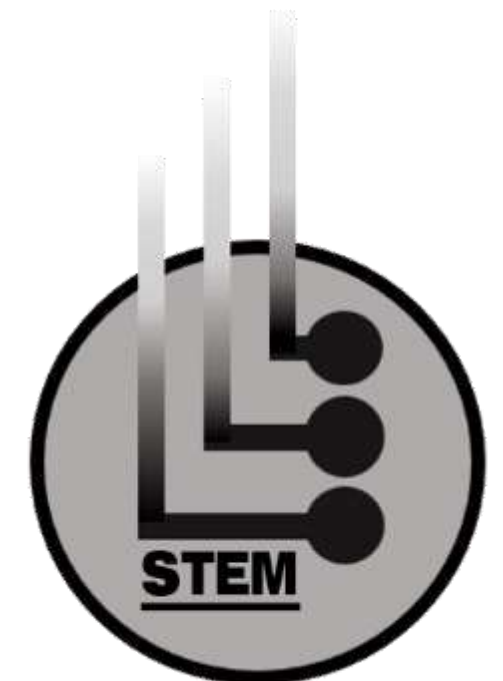
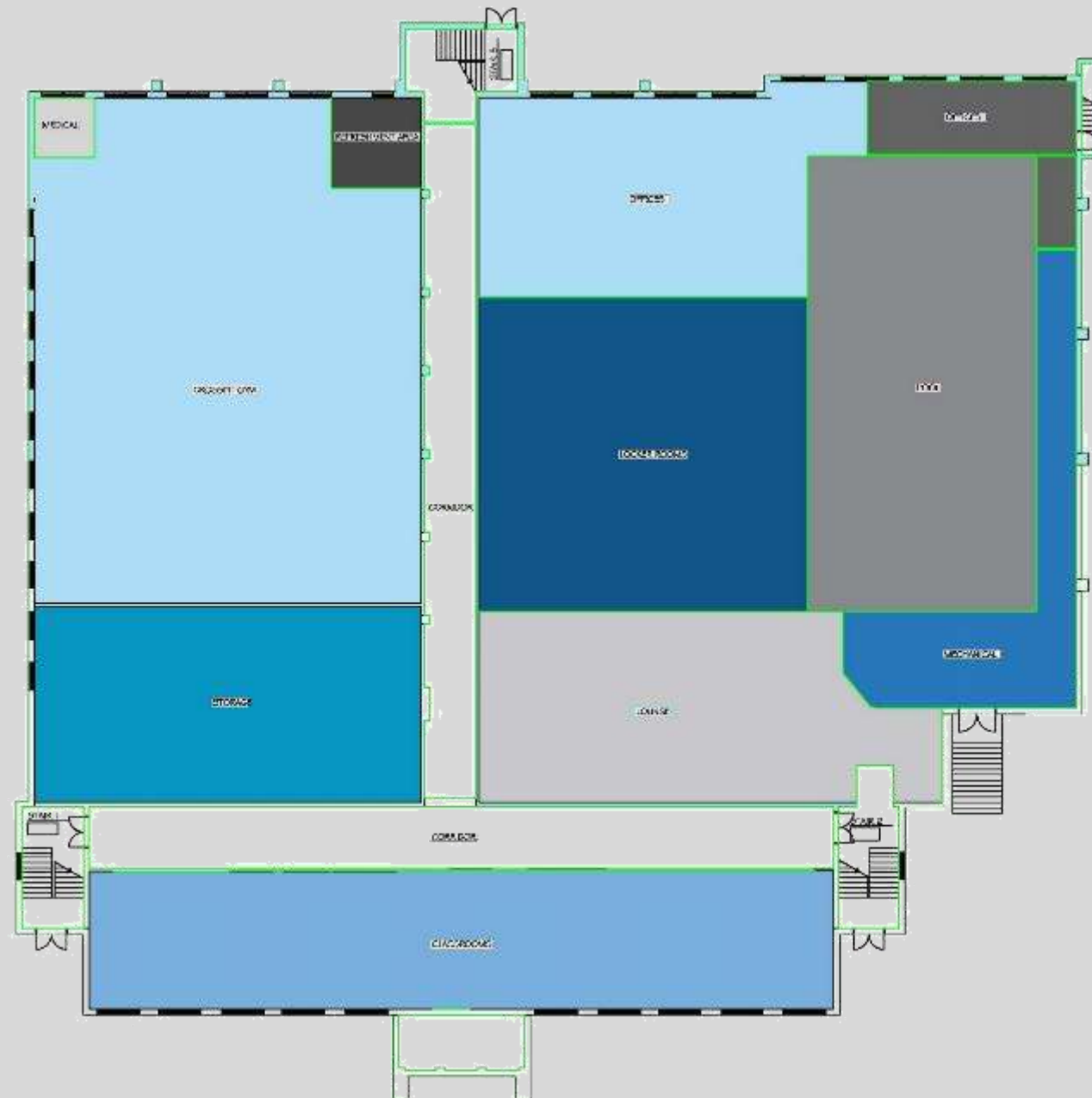
1.	corridors	6,500 sqft
2.	mechanical	1,500 sqft
3.	storage	2,500 sqft
4.	gymnasium	13,000 sqft
5.	offices	5,100 sqft
6.	lobby	700 sqft
7.	registration	500 sqft
8.	education	3,500 sqft
9.	lounge	1,500 sqft
10.	simulators	1,000 sqft
11.	refreshment vending area	700 sqft
12.	restrooms	2,500 sqft
13.	crossfit/trx	4,500 sqft
14.	pool	5,500 sqft
15.	medical	200 sqft



**The proposed scope of STEM's renovation is to repurpose and restore Chrisenbury Memorial Gym to pristine condition as a new multi-purpose space for Air force and Army ROTC training. The space will commemorate fallen WWII soldiers of whom the structure was originally dedicated to and will include features such as cross-fit, plyometrics, full-length track, restored pool, turf, TRX, and rock climbing spaces. In addition to upgraded training amenities, renovations will also include modern Air force and Army simulators, educational labs, medical and first aid stations, a nutrition bar, and lounge space for cadets to utilize during all hours. This restoration process is intended to attract and recruit new enlistees to expand upon East Carolina's existing ROTC program for upcoming generations.**

# **BLOCK PLANNING:**

## **FIRST FLOOR**





# **BLOCK PLANNING: SECOND FLOOR**

