

PREPARED: 11/04/24 - 10:24 AM  
PONANGI,SRILAYA  
PROGRAM CODE: COMP SCI  
SELF-SERVICE DEGREE PROGRESS REPORT

203795169  
GRADUATION DATE: UNKNOWN  
CATALOG YEAR: 2023

## COMPUTER SCIENCE

**AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED**

!!

IF YOU HAVE NOT APPLIED FOR GRADUATION, CONSULT YOUR  
MAJOR ADVISOR REGARDING THE STEPS WHICH MUST BE TAKEN TO  
APPLY FOR GRADUATION.

FOR FALL 2025 GRADUATION,  
THE DEADLINE TO APPLY IS MARCH 7, 2025.

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\*\*\*\* STUDENT PLEASE READ - IMPORTANT NOTICE \*\*\*\*

THIS IS YOUR DEGREE PROGRESS REPORT AND HAS BEEN PREPARED TO  
ASSIST YOU IN COMPLETING YOUR DEGREE PROGRAM. THIS REPORT IS  
UNOFFICIAL AND DOES NOT REPORT ACADEMIC STATUS. REVIEW YOUR  
UNOFFICIAL TRANSCRIPT FOR REPEAT ACTIONS, GPAs, AND ACADEMIC  
STANDING. IF YOU HAVE ANY QUESTIONS CONTACT YOUR ADVISOR. READ  
THE END OF THE REPORT FOR ADDITIONAL IMPORTANT INFORMATION.

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COURSES WHICH MEET MAJOR REQUIREMENTS MAY NOT BE TAKEN ON A  
CREDIT/NO CREDIT BASIS, UNLESS THE COURSE IS OFFERED ON  
A CR/NC BASIS ONLY.(NOTE: ADDITIONAL COURSES IN THE DISCIPLINE  
OF THE MAJOR BEYOND THOSE USED TO SATISFY MAJOR REQUIREMENTS MAY  
NOT BE TAKEN CREDIT/NO CREDIT.)

GENERAL EDUCATION COURSES CANNOT BE TAKEN ON A CR/NC BASIS.

REQUIREMENTS LISTED AS IN-PROGRESS (IP) AND/OR PLANNED  
COURSE (PC) ARE NOT YET COMPLETED. THESE COURSES MUST  
BE SUCCESSFULLY COMPLETED WITH MINIMUM PASSING GRADES  
IN ORDER TO BE USED TOWARDS DEGREE REQUIREMENTS.

\*\*\*\* GENERAL EDUCATION PLAN G \*\*\*\*  
2020 GE CATALOG YEAR

**OK** SECTION A: ENGLISH LANGUAGE COMMUNICATION AND  
CRITICAL THINKING REQUIREMENT MET

+ A1 ORAL COMMUNICATION MET

Term	Course	Credits	Grade	Title
24SU	COMS 151	3.0	A	FUND PUBLIC SPEAKING

+ A2 WRITTEN COMMUNICATION MET

Term	Course	Credits	Grade	Title
24SP	LING 113B	3.0	A	APPR UNIV WRITNG B

### A3 CRITICAL THINKING MET VIA COMPLETION OF MAJOR REQUIREMENTS

#### OK SECTION B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING REQUIREMENT MET

##### + B1 PHYSICAL SCIENCE AND/OR B2 LIFE SCIENCE LECTURE COURSES MET

Term	Course	Credits	Grade	Title
24SP	BIOL 106	3.0	B	BIOLOGIC PRIN I
20FA	CHEM 1T7127	3.0	A-	ENGR CHEMISTRY 1 JNTU: S 1105

##### + B3 LABORATORY ACTIVITY MET

Term	Course	Credits	Grade	Title
20FA	CHEM 1T7127L	1.0	A	ENGR CHEM 1 LAB JNTU: S 1108

##### + B4 MATHEMATICS/QUANTITATIVE REASONING MET

Term	Course	Credits	Grade	Title
22FA	MATH 1T7793	4.0	B+	PROBABILITY & STATISTICS JNTU: S 3101

##### + B5 UPPER DIVISION SCIENTIFIC INQUIRY OR QUANTITATIVE REASONING MET

Term	Course	Credits	Grade	Title
24SU	COMP 310	3.0	B-	AUTO LANG+COMPUTN

#### OK SECTION C1 ARTS AND C2 HUMANITIES REQUIREMENT MET

##### + C1 ARTS MET

Term	Course	Credits	Grade	Title
23FA	ART 141	3.0	A-	BEGIN 3D DESIGN

##### + C2 HUMANITIES MET

Term	Course	Credits	Grade	Title
21SP	PHIL 1T0003	3.0	B-	PHILOSOPHY JNTU: S 1204

#### OK SECTION C3 AMERICAN HISTORY REQUIREMENT MET

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Term	Course	Credits	Grade	Title
23FA	HIST 271	3.0	A	US SINCE 1865

#### OK SECTION D1: SOCIAL SCIENCES REQUIREMENT MET

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Term	Course	Credits	Grade	Title
24SU	COMS 323	3.0	A	GRP COMMUNICATION
22SP	SOC 1T0006	3.0	B-	SOCIOLOGY JNTU: S 2206

#### OK SECTION D3 CONSTITUTION OF THE UNITED STATES AND SECTION D4 CALIFORNIA STATE AND LOCAL GOVERNMENT MET

##### + D3 CONSTITUTION OF THE UNITED STATES REQUIREMENT MET

Term	Course	Credits	Grade	Title
23FA	POLS 155	3.0	A-	AMER POL INST

+

## D4 CALIFORNIA STATE AND LOCAL GOVERNMENT REQUIREMENT MET

Term	Course	Credits	Grade	Title
23FA	POLS 155	3.0	A-	AMER POL INST

NO

## SECTION E: LIFELONG LEARNING REQUIREMENT (3 UNITS) SELECT 3 UNITS FROM THE LISTED COURSES

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**COURSE LIST:**

AAS	230,390	,390F	AFRS	337	AIS	301
ART	151,201	BIOL	375	BLAW	280,368	
BUS	104	CADV	310	CAS	270	,270F CCE 200
CD	133,361	CH S	270	SOC	270F,360,390	
CJS	340	CM	336	,336L	COMP	100,102 &
COMP	102L,110	,110L,111B	,111BL,300			
COMS	150,251,323,360	CTVA	100,323			
DANC	142B,147	,148	ENGL	306,313,315		
ENT	101	EOH	101,353	FCS	120,171,207,	
FCS	260,315,323,324,330,340	FIN	102,302			
FLIT	234	GEOG	206	,206L	GEOL	104
GWS	205	,205CS	HIST	366	HSCI	131,170,231,
HSCI	336,337	IS	212	JOUR	100,390	
J S	390CS	KIN	115A,117,118,123A,124A,			
KIN	125A,126A,128,129A,130A,131A,132A,133A,					
KIN	135A,142B,147,148	,149	,152A,153,172,			
KIN	177A,178A,179A,185A,195A	LING	310			
M E	100	MSE	303	MUS	139A	PHIL 165,180,
PHIL	250,260,280,305,337	QS	302			
RTM	251,278,301,310	,310L,352,353	,353L			
SCI	100	SUST	310	TH	243	UNIV 100

OK

## CSUN SECTION F: COMPARATIVE CULTURAL STUDIES/GENDER, RACE, CLASS, ETHNICITY STUDIES AND FOREIGN LANGUAGES REQUIREMENT FOR TRANSFER STUDENTS MET

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Term	Course	Credits	Grade	Title
24WI	HIST 161	3.0	A	LATIN AMERICAN HIST

NO

## GENERAL EDUCATION UPPER DIVISION REQUIREMENTS (9 UNITS)

UPPER DIVISION GE:B5(3 UNITS) & OPTION 1,2,3,OR 4(6 UNITS)

UDGE OPTION 1: C & D (6 UNITS)

UDGE OPTION 2: C & F (6 UNITS)

UDGE OPTION 3: D & F (6 UNITS)

UDGE OPTION 4: F & F (6 UNITS)

UPPER DIVISION GENERAL EDUCATION MUST BE TAKEN NO  
SOONER THAN THE SEMESTER IN WHICH JUNIOR STANDING  
(60 UNITS) IS ACHIEVED.

UPPER DIVISION GENERAL EDUCATION MUST BE TAKEN

AT A CSU CAMPUS.

\*\* THESE ARE THE ONLY CSUN COURSES THAT WILL  
\*\* FULFILL THE UPPER DIVISION GE REQUIREMENT

STUDENTS ENROLLING IN UPPER DIVISION GE COURSES MUST HAVE  
COMPLETED REQUIRED LOWER DIVISION GE COURSES IN WRITTEN  
COMMUNICATION, ORAL COMMUNICATION, CRITICAL THINKING AND  
MATHEMATICS/QUANTITATIVE REASONING.

+ **R**

### SECTION B5 UPPER DIVISION SCIENTIFIC INQUIRY OR QUANTITATIVE REASONING MET

Term	Course	Credits	Grade	Title
24SU	COMP 310	3.0	B-	AUTO LANG+COMPUTN

### SECTION C UPPER DIVISION ARTS AND HUMANITIES

**COURSE LIST:** AAS 321 AFRS 343,344,346,351,352  
AIS 301,318 ANTH 326 ART 305 CH S 310,  
CH S 350,351,380,381,382 CLAS 315 COMS 305  
CTVA 309,323 DANC 380 & 380L DH 320  
ENGL 300,316,318,322,333,364 FLIT 331,381  
GWS 351 HIST 303,304,370,371 JOUR 391  
J S 300,333 KIN 380 & 380L MUS 306  
PHIL 314,317,325,330,337,349,353,354  
QS 303 R S 304,307,310,356,357,361 ,362,  
R S 370 TH 310,333,337

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### SECTION D UPPER DIVISION SOCIAL SCIENCES MET

Term	Course	Credits	Grade	Title
24SU	COMS 323	3.0	A	GRP COMMUNICATION

### SECTION F UPPER DIVISION COMPARATIVE CULTURAL STUDIES/GENDER,RACE, CLASS, ETHNICITY STUDIES AND FOREIGN LANGUAGES

**COURSE LIST:** AAS 340,345,360,362 AFRS 300,320,322,324,  
AFRS 325,366 AIS 304,318,333 ANTH 308,  
ANTH 310,315 ,345 ARMN 310,360 ART 315  
BLAW 391 CADV 320 CAS 311,365 CH S 333,  
CH S 364,365 COMS 356,360 DANC 384  
ENGL 311,318,371 FLIT 370,371,380  
GEOG 318 ,322,324,326,334 GWS 300,351  
HIST 349A,349B,369 J S 306,330,335,378  
JOUR 371,372 KIN 384,385 LING 325  
MSE 302 MUS 309,310 PHIL 333,343,344,348  
POLS 321,332 QS 301,303,304 R S 306 ,  
R S 365,378,380,385,390 RTM 310 & 310L,  
RTM 330 SOC 306,307,335 TH 325  
URBS 350

## ETHNIC STUDIES GRADUATION REQUIREMENT IS WAIVED

**OK** BASIC SKILLS INFORMATION COMPETENCE REQUIREMENT MET

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Term	Course	Credits	Grade	Title
24SP	LING 113B	3.0	A	APPR UNIV WRTNG B

**OK** SUBJECT EXPLORATIONS INFORMATION COMPETENCE REQUIREMENT MET

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Term	Course	Credits	Grade	Title
24WI	HIST 161	3.0	A	LATIN AMERICAN HIST

**OK** WRITING SKILLS REQUIREMENTS MET

CSUN HAS WAIVED THE GRADUATION WRITING ASSESSMENT REQUIREMENT (GWAR) FOR UNDERGRADUATE STUDENTS WITH A GE CATALOG PRIOR TO 2023.

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LOWER DIVISION WRITING REQUIREMENT MET

Term	Course	Credits	Grade	Title
24SP	LING 113B	3.0	A	APPR UNIV WRTNG B

## COMPUTER SCIENCE GRADE AND RESIDENCY REQUIREMENTS

NO TRANSFER GRADE LOWER THAN A "C" WILL BE ACCEPTED FROM ANOTHER INSTITUTION TO SATISFY COLLEGE OF ENGINEERING AND COMPUTER SCIENCE REQUIREMENTS.

NO CSUN GRADE LOWER THAN A "C-" WILL BE ACCEPTED FOR COURSES IN THE MAJOR.

A COMPUTER SCIENCE MAJOR MUST COMPLETE A MINIMUM OF 18 RESIDENCY UNITS OF UPPER DIVISION COMPUTER SCIENCE COURSES, WHICH INCLUDES 15 UNITS OF SENIOR ELECTIVES IN ADDITION TO ALL OTHER INSTITUTIONAL RESIDENCY REQUIREMENTS.

**OK** COMPUTER SCIENCE LOWER DIVISION CORE REQUIREMENTS MET

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1) LOWER DIVISION ALGORITHMS & PROGRAMMING REQUIREMENT MET

Term	Course	Credits	Grade	Title
21SP	COMP 1T9969	3.0	C	PRBLM SOLVING W/PRGRMMNG JNTU: S 1205
21SU	COMP 1T9970	1.0	B+	PRBLM SLVNG W/PRGM LAB JNTU: S 1207

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2) LOWER DIVISION MAJOR REQUIREMENTS MET

Term	Course	Credits	Grade	Title
22SP	COMP 1T9971	3.0	C	OBJCT ORIENTED PROG CNCPTS JNTU: S 2203
22SP	COMP 1T9972	1.0	A-	OBJ ORIENTED PRG CNCPTS LAB JNTU: S 2207
21FA	COMP 1T9973	3.0	B-	MICROPROCERS & MICROCTRLS JNTU: S 2102
21FA	COMP 1T9974	1.0	A	MICROPROCERS & MICROCTRL LAB JNTU: S 2106
22SP	COMP 1T9975	3.0	C	CMPTR ORG & ARCHITECTURE JNTU: S 2202
21FA	COMP 1T9976	3.0	C	DATA STRUCTURES JNTU: S 2104
21FA	COMP 1T9980	3.0	A-	DIGITAL LOGIC DESIGN JNTU: S 2105
21FA	MATH 1T7760	3.0	B+	DISCRETE MATH STRCTRS 1 JNTU: S 2101
20FA	MATH 1T7764	4.0	B-	MATHEMATICS 1 JNTU: S 1103
21SP	MATH 1T7765	4.0	C	MATHEMATICS 2 JNTU: S 1202
24SP	MATH 262	3.0	B	INTRO LINEAR ALGEBRA

OK

### COMPUTER SCIENCE LOWER DIVISION SCIENCE ELECTIVE REQUIREMENTS MET

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#### 1) LOWER DIVISION LIFE SCIENCE ELECTIVE MET

Term	Course	Credits	Grade	Title
24SP	BIOL 106	3.0	B	BIOLOGIC PRIN I
24SP	BIOL 106L	1.0	B-	BIOL PRIN I LAB

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#### 2) LOWER DIVISION PHYSICAL SCIENCE ELECTIVE MET

Term	Course	Credits	Grade	Title
20FA	PHYS 1T8825	3.0	B-	ENGR PHYSICS 1 JNTU: S 1104
20FA	PHYS 1T8825L	1.0	A-	ENGR PHYSICS 1 LAB JNTU: S 1107

NO

### COMPUTER SCIENCE UPPER DIVISION CORE REQUIREMENTS (29 UNITS) TAKE ALL OF THE LISTED COURSES

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Term	Course	Credits	Grade	Title
24SU	COMP 310	3.0	B-	AUTO LANG+COMPUTN
24FA	COMP 322	3.0	IP	INTRO OPRNG SYST
24FA	COMP 322L	1.0	IP	OPRTNG SYSTMS LAB
24FA	COMP 324	3.0	IP	NETWRKS AND SECURITY
24SU	COMP 380	2.0	A	INTRO SE PROJ
24SU	COMP 380L	1.0	A	SOFTWARE ENGR LAB
22FA	COMP 3T8222	3.0	C	PRIN OF PROGRAMMING LANG JNTU: S 3104
22FA	COMP 3T8225	3.0	C	DSGN ANALYS ALGORITHMS JNTU: S 3103
24FA	COMP 490	2.0	IP	SR PROJECT I
24FA	COMP 490L	1.0	IP	SR PROJECT LAB I
23FA	MATH 340	4.0	B+	INTRO PROB & STAT

**NEEDS:** 3.0 UNITS

**COURSE LIST:** COMP 491 , 491L

NO

COMPUTER SCIENCE SENIOR ELECTIVE REQUIREMENT (15 UNITS)  
NOTE: A GRADE OF "C-" OR BETTER IS REQUIRED IN ALL COURSES

COMPUTER SCIENCE MAJORS ARE REQUIRED TO TAKE 15 UNITS OF SENIOR ELECTIVES. THE SENIOR ELECTIVES MUST CONSIST OF 400 OR 500 LEVEL COURSES IN COMPUTER SCIENCE (NOT INCLUDING COMP 482, COMP 490/L, COMP 491/L, COMP 492 COMP 494, COMP 499 OR COMP 502).

THE ELECTIVES MAY INCLUDE MATH 481A AS 3 OF THE 15 UNITS.

REQUESTS FOR TAKING A 400 OR 500 LEVEL COURSE AS A SENIOR ELECTIVE THAT DOES NOT MEET THE REQUIREMENTS STATED MUST BE APPROVED BY THE STUDENT'S FACULTY ADVISOR AND BY THE DEPARTMENT CHAIR PRIOR TO ENROLLMENT IN THE COURSE.

Term	Course	Credits	Grade	Title
22FA	COMP 3T8223	3.0	B+	DATABASE MGMT SYSTEMS JNTU: S 3105
22FA	COMP 3T8224	3.0	B-	COMPUTER NETWORKS JNTU: S 3102
24FA	COMP 542	3.0	IP	MACHINE LEARNING
24FA	COMP 582	3.0	IP	SW REQUIREMENTS

**NEEDS:** 3.0 UNITS

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ADDITIONAL COURSES WHICH COUNT TOWARD  
TOTAL UNITS REQUIRED FOR A DEGREE.  
WHEN COMPLETED THESE COURSES ARE INCLUDED  
IN THE TOTAL UNITS EARNED AND GPA

Term	Course	Credits	Grade	Title
20FA	CHEM 1T7127L	1.0	A	ENGR CHEM 1 LAB JNTU: S 1108
20FA	COMP 1T0002	1.0	A-	INTRO TO PRGRMMNG LAB JNTU: S 1109
21FA	COMP 1T0004	3.0	A	SMART SYSTEM DESIGN JNTU: S 2103
21FA	COMP 1T0005	1.0	A-	DATA STRUCTURES LAB JNTU: S 2107
22FA	COMP 1T0007	4.0	C	DISCRETE MATH STRUCT 2 JNTU: S 3106
22FA	COMP 1T0008	1.0	A-	COMPUTER NETWORKS LAB JNTU: S 3107
22FA	COMP 1T0009	1.0	B+	DSGN ANALYS ALGRTHMS LAB JNTU: S 3108
22FA	COMP 1T0010	1.0	B+	DATABASE MGMT SYSTEMS LAB JNTU: S 3109
22SP	COMP 1T9977	3.0	B-	THEORY OF COMPUTATION JNTU: S 2205
22SP	COMP 1T9978	3.0	B-	OPERATING SYSTEMS JNTU: S 2204
22SP	COMP 1T9979	1.0	A-	OPERATING SYSTEMS LAB JNTU: S 2208
24SP	COMP 494A	1.0	CR	ACADEMIC INTERN
20FA	ENGR 1T0001	3.0	C	FINANCE FOR ENGRS JNTU: S 1102
23FA	LING 113A	3.0	A	APPR UNIV WRITNG A
22SU	MATH 1T7766	4.0	C	MATHEMATICS 3 JNTU: S 2201
21SP	PHYS 1T8826	3.0	C	ENGR PHYSICS 2 JNTU: S 1203
21SU	PHYS 1T8826L	1.0	B+	ENGR PHYSICS 2 LAB JNTU: S 1206

**IP** BACHELOR'S OF SCIENCE UNIT AND GPA REQUIREMENTS MET

**IP EARNED:** 134.0 UNITS

**IN-PROGRESS** 16.0 UNITS

+ 36 UPPER DIVISION UNITS MET  
( 26.0 UNITS EARNED)

**IN-P --->** 16.0 UNITS

+ 30 RESIDENCE UNITS MET  
( 42.0 UNITS EARNED)

**IN-P --->** 16.0 UNITS

+ 24 RESIDENCE UPPER DIVISION UNITS MET  
( 14.0 UNITS EARNED)

**IN-P --->** 16.0 UNITS

+ 12 RESIDENCE UNITS IN THE MAJOR MET  
( 18.0 UNITS EARNED)

**IN-P --->** 16.0 UNITS



- + 9 RESIDENCE UNIT IN GENERAL EDUCATION MET  
( 28.0 *UNITS EARNED*)
- + YOU MUST MAINTAIN A 2.00 GRADE POINT AVERAGE  
IN ALL COURSE WORK TAKEN AT CSUN  
41.0 *ATTEMPTED UNITS*      148.20 *POINTS*      3.61 *GPA*
- + YOU MUST MAINTAIN A 2.00 GRADE POINT AVERAGE  
IN ALL COURSE WORK TAKEN TOWARD THE DEGREE  
133.0 *ATTEMPTED UNITS*      398.30 *POINTS*      2.99 *GPA*
- + YOU MUST MAINTAIN A 2.00 GRADE POINT AVERAGE  
IN UPPER DIVISION COURSE WORK REQUIRED IN THE MAJOR  
22.0 *ATTEMPTED UNITS*      63.30 *POINTS*      2.88 *GPA*

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THESE COURSES DO NOT PROVIDE UNIT CREDIT TOWARD A BACHELOR DEGREE

Term	Course	Credits	Grade	Title
23FA	UNIV 061L	1.0	CR	SI LING 113A
24SP	UNIV 062L	1.0	CR	SI LING 113B
Term	Course	Credits	Grade	Title
21SP	COMP 1T9970	0.0	F	>R PRBLM SLVNG W/ PRGM LAB JNTU: S 1207
24SP	COMP 310	0.0	D	>R AUTO LANG+COMPUTN
22SP	MATH 1T7766	0.0	F	>R MATHEMATICS 3 JNTU: S 2201
21SP	PHYS 1T8826L	0.0	F	>R ENGR PHYSICS 2 LAB JNTU: S 1206

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THESE COURSES ARE NOT TRANSFERABLE AND DO NOT PROVIDE ANY CREDIT (UNIT OR GPA)

Term	Course	Credits	Grade	Title
20FA	NON TRANSFER	2.0	B+	ENGLISH 1 JNTU: S 1101
20FA	NON TRANSFER	1.0	A	ENGL LANG COMM SKLS LAB JNTU: S 1106
21SP	NON TRANSFER	3.0	B+	ENGLISH 2 JNTU: S 1201

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## STUDENT RESPONSIBILITIES

- COMPLY WITH UNIVERSITY POLICIES AND REQUIREMENTS STATED IN THE CATALOG.
- SUBMIT OFFICIAL TRANSCRIPTS FROM ALL TRANSFER INSTITUTIONS.
- ALL CSUN INCOMPLETES MUST BE CHANGED TO A FINAL GRADE BEFORE THE DEGREE CAN BE GRANTED.

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FEDERAL LAW PROHIBITS TRANSMITTAL OF THIS DOCUMENT TO A THIRD PARTY.

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--- EXCEPTIONS TO ACADEMIC PROGRAM ---

Per Sw, use S 2202 for COMP 222. EJ 6/27/23

Per SW, use S 2102 and S 2106 for COMP 122/L. EJ 6/27/23

Per SW, use S 2101 for COMP 256/L. EJ 6/27/23

Per SW, use S 2105 for PHIL 230. EJ 6/27/23

Per SW, use S 2104 for COMP 282. EJ 6/27/23

Per SW, use S 3103 for COMP 482 and S 3104 for COMP 482. EJ  
6/27/23

Per SW, use S 3102 and S 3105 for Computer Science Senior  
Elective Requireiemnt. EJ 6/27/23

Per SW, use S 1205/ S 1207 for COMP 110/L. EJ 6/27/23

Per SW, use S 2203/ S 2207 for COMP 182/L. EJ 6/27/23

Per SW, waive 1 unit in Lower Division Major Requirement. EJ  
6/27/23

Per s/w S 1103(JNTU) for MATH 150A, S 1202(JNTU) for MATH 150B,  
waive 3.0 units in LOWER DIVISION MAJOR REQUIREMENTS.au 7/6/23

Per s/w S 1104(JNTU) for PHYS 220A in DPR: LOWER DIVISION  
PHYSICAL SCIENCE, S 1107 (JNTU) for PHYS 220AL in DPR: LOWER  
DIVISION PHYSICAL SCIENCE.au 7/7/23

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--- END OF EXCEPTIONS TO ACADEMIC PROGRAM ---

\*\*\*\*\* END OF ANALYSIS \*\*\*\*\*