

**B.S. in Biology, Concentration in Cellular & Molecular Biology**  
*note: this check-sheet is only valid for JSU Catalog Fall 2021-2022 and later*

Student: \_\_\_\_\_  
 Student ID # \_\_\_\_\_

Advisor: \_\_\_\_\_  
 Catalog Year: \_\_\_\_\_

**University Core Curriculum**

**First Year Experience (0 hr.)**

*Not required for transfer students*

STU 101 (0)

**Area I – Written Comp (6 hrs.)**

*Select one by placement*

EH 101 (3)                       EH 102 (3)

EH 103 (3)                       EH 104 (3)

EH 105 & EH 115                      EH 106 & EH 116  
 (3)     (3)

**Area III – Nat. Science & Math (11 hrs.)**

*A grade of "C" or better is required in BY*

BY 101 (3)                       BY 103(1)

BY 102 (3)                       BY 104 (1)

MS 112 (3)  or higher\*                      MS \_\_\_\_ ( )

*MS 204 does not satisfy math requirements for Area III*

Many professional schools require MS 125 and/ or MS

204. MS 113 is required for PHS 201.

**Area II – Hum. & Fine Arts (12 hrs.)**

Literature – *sequence not required*

(6 hrs. – choose two)

EH 201 (3)

EH 219 (3)

EH 202 (3)

EH 220 (3)

EH 203 (3)

EH 231 (3)

EH 204 (3)

EH 232 (3)

Fine Arts (3 hrs. – choose one)

ART 111 (3)

DR 242 (3)

ART 112 (3)

EH 251 (3)

ART 202 (3)

FLM 230 (3)

MU 233 (3)

Speech (3 hrs.)

EH 141 (3)

**Area IV – History, Social, & Behavioral Sciences (12 hrs.)**

History (6 hrs. – sequence required)

HY 101 (3)  & HY 102 (3)  or

HY 201 (3)  & HY 202 (3)  or

HY 111 (3)  & HY 112 (3)

Social & Behavioral Sciences<sup>†</sup>

(6 hrs. – choose two)

AN 224 (3)

PSC 100 (3)

EC 221 (3)

PSC 101 (3)

EC 222 (3)

PSY 201 (3)

GY 120 (3)

PSY 222 (3)

GY 220 (3)

SY 221 (3)

SY 223 (3)

**Biology Major Curriculum**

*A grade of "C" or better is required in biology courses.*

**Support Courses (30 hrs.)**

CY 105 (3) & CY 107 (1)

CY 106 (3) & CY 108 (1)

CY 231 (4)

CY 232 (4)

CS 201 (3)

MS 113 (3)  or higher                      MS \_\_\_\_ ( )

PHS 201 (3)  & PHS 203 (1) <sup>‡</sup>

PHS 202 (3)  & PHS 204 (1) <sup>‡</sup>

<sup>‡</sup>PHS 211, 212, 213, & 214 also accepted.

**Biology Core Courses (13 hrs.)**

BY 322 (4)  (WI)

BY 332 (4)

BY 373 (4)

BY 496 (1)  (WI)

**Group I Course (4 hrs.)**

BY 450 (4)

**Group II Course (4 hrs.)**

BY 323 (4)

**Biology Electives (10 hrs.)**

*Must be 300+ and ≥ 10 hrs. total*

BY \_\_\_\_ ( )                       BY \_\_\_\_ ( )

BY \_\_\_\_ ( )                       BY \_\_\_\_ ( )

Suggested electives: BY 412, BY 413, BY 473, and BY 477.

**Additional Key Benchmarks**

**General Electives (18 hrs.)**

Additional coursework for a total of 120 hours is required. Recommended electives include CY 362, CY 363.

Depending upon Group I, Group II, and biology electives chosen above, be sure to select courses to total 36+ hours at the 300 level or above.

course (hours)

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

**Graduation Requirements**

120 total hours

30 JSU hours

36 300+ hours

2.0 overall GPA

2.0 JSU GPA

"C" or better in BY courses

EPP or CLA assessment

Apply to Graduate

First Destination Survey

*If not included in BY 496:*

Biology MFAT Exam

Dept. Head Exit Interview

2 Writing Intensive Courses

**Additional Suggestions**

Students pursuing this concentration should consider combining this degree with a minor in chemistry.

Undergraduate research and summer research internships are strongly encouraged to accompany this coursework