BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING CURRICULUM - CLASS OF 2024

FALL | SPRING | SUMMER 1 | SUMMER 2
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### Year 1
- **FALL**
  - MATH1341: Calculus 2 for Engrs.
  - CHEM151: General Chem for Engrs.
  - CHEM153: Recitation for CHEM151
  - GE1000: Intro. to Eng'g.
  - GE1011: Cornerstone Eng'g 1
  - ENGW1111: College Writing
- **SPRING**
  - MATH3231: Calculus 3 for Engrs.
  - PHYS1115:
  - PHYS1152: Physics 1 for Engrs.
  - PHYS1153: Physics 1 Lab
  - PHYS1154: ILS for PHYS1151
  - PHYS1155: Cornerstone Eng'g 1
- **SUMMER 1**
  - CHME3236: CHE Conservation Princ.
  - Elective
  - General Elective 2
### Year 2
- **MC**
  - **FALL**
    - MATH1341: Diff. Eq./Lin. Alg.
    - CHEM2311: Organic Chemistry 1
    - CHEM2312: Lab for CHEM2311
    - ENGW3102: Intro to Eng'g. Co-op
    - CHME2310: Transport Processes 1
    - CHME2320: CHE Thermodynamics 1
  - **SPRING**
    - MATH1341: Diff. Eq./Lin. Alg.
    - CHEM2311: Organic Chemistry 1
    - CHEM2312: Lab for CHEM2311
    - ENGW3102: Intro to Eng'g. Co-op
    - CHME2310: Transport Processes 1
    - CHME2320: CHE Thermodynamics 1
    - CHME3315/6: Elective
    - CHME3322: Lab for PHYS1155
    - Phys for Engrs. 2
    - PHYS1155: Physics for Engrs. 2
    - PHYS1156: LAB for PHYS1155
    - PHYS1157: Lab for PHYS1155
    - PHYS1158: Interactive Learn Sem. for PHYS1155
### Year 3
- **MC**
  - **FALL**
    - ENGW3102: Adv Writing in the Tech Prof (to be taken online)
  - **SPRING**
    - CHEM3315/6: Elective
    - CHEM4510: Chem. Eng. Lab 1 w Recit.
    - CHEM4701: CHE Kinetics
    - Elective
    - Grad Course #1
### Year 4
- **MC**
  - **FALL**
    - CHEM3315/6: Elective
    - CHEM4315/6: CHE Thermodynamics 1
    - CHEM4701: Elective
    - Elective
    - Grad Course #4
### RELATED CONSIDERATIONS
- **Advising Requirements:**
  - All students are required to meet with their academic advisor to review any proposed course changes or substitutions. Students are responsible for satisfying all required coursework and all course restrictions and prerequisites for the major. If a course is not taken the first time it is offered, it must be taken and passed the second time it is offered.
  - Graduate electives outside the department curriculum may be applied to the degree requirements by petitioning the department’s graduate committee. Electives may be interchanged. Please consult with your advisor in 220SN, 617-373-2154.

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**PlusOne Curriculum**

Bachelor of Science Chemical Engineering/Master of Science in Engineering Management

Sample Only – Actual Curriculum Sequence May Deviate from Sample

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You will need to have AP credit for Calc. AB (MATH1341 - Calculus 1 - 4 SH) - see advisor

Students are required to meet with their academic advisor to petition into the PlusOne program. Students are encouraged to meet with their Financial Aid counselor to review any financial questions.

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**You may substitute**

Elective, 4 semester hours

Electives outside the department curriculum may be applied to the degree requirements by petitioning the department’s graduate committee. Electives may be interchanged. Please consult with your advisor in 220SN, 617-373-2154.

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**Pathway Requirements:**

Interpreting Culture (IC), Societies and Institutions (SI), Differences and Diversity (DD) and Integration Experience (EX) are not explicitly satisfied by required engineering courses.

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**Advanced Science Elective Requirements:**

Students can choose between BIOE3201, BIOE3202, BIOE3203, BIOE3204, CHEM2311, CHEM3311, CHEM3312, CHEM3313, CHEM3314, CHEM3315, CHEM3316, CHEM3317, CHEM3318, CHEM3319, CHEM3320, CHEM3321, CHEM3322, CHEM3323, CHEM3324, CHEM3325, CHEM3326, CHEM3327, CHEM3328, CHEM3329, CHEM3330, CHEM3331, CHEM3332, CHEM3333, CHEM3334, CHEM3335, CHEM3336, CHEM3337, CHEM3338, CHEM3339, CHEM3340, CHEM3341, CHEM3342, CHEM3343, CHEM3344, CHEM3345, CHEM3346, CHEM3347, CHEM3348, CHEM3349, CHEM3350, CHEM3351, CHEM3352, CHEM3353, CHEM3354, CHEM3355, CHEM3356, CHEM3357, CHEM3358, CHEM3359, CHEM3360, CHEM3361, CHEM3362, CHEM3363, CHEM3364, CHEM3365, CHEM3366, CHEM3367, CHEM3368, CHEM3369, CHEM3370, CHEM3371, CHEM3372, CHEM3373, CHEM3374, CHEM3375, CHEM3376, CHEM3377, CHEM3378, CHEM3379, CHEM3380, CHEM3381, CHEM3382, CHEM3383, CHEM3384, CHEM3385, CHEM3386, CHEM3387, CHEM3388, CHEM3389, CHEM3390, CHEM3391, CHEM3392, CHEM3393, CHEM3394, CHEM3395, CHEM3396, CHEM3397, CHEM3398, CHEM3399, CHEM3400, CHEM3401, CHEM3402, CHEM3403, CHEM3404, CHEM3405, CHEM3406, CHEM3407, CHEM3408, CHEM3409, CHEM3410, CHEM3411, CHEM3412, CHEM3413, CHEM3414, CHEM3415, CHEM3416, CHEM3417, CHEM3418, CHEM3419, CHEM3420, CHEM3421, CHEM3422, CHEM3423, CHEM3424, CHEM3425, CHEM3426, CHEM3427, CHEM3428, CHEM3429, CHEM3430, CHEM3431, CHEM3432, CHEM3433, CHEM3434, CHEM3435, CHEM3436, CHEM3437, CHEM3438, CHEM3439, CHEM3440, CHEM3441, CHEM3442, CHEM3443, CHEM3444, CHEM3445, CHEM3446, CHEM3447, CHEM3448, CHEM3449, CHEM3450, CHEM3451, CHEM3452, CHEM3453, CHEM3454, CHEM3455, CHEM3456, CHEM3457, CHEM3458, CHEM3459, CHEM3460, CHEM3461, CHEM3462, CHEM3463, CHEM3464, CHEM3465, CHEM3466, CHEM3467, CHEM3468, CHEM3469, CHEM3470, CHEM3471, CHEM3472, CHEM3473, CHEM3474, CHEM3475, CHEM3476, CHEM3477, CHEM3478, CHEM3479, CHEM3480, CHEM3481, CHEM3482, CHEM3483, CHEM3484, CHEM3485, CHEM3486, CHEM3487, CHEM3488, CHEM3489, CHEM3490, CHEM3491, CHEM3492, CHEM3493, CHEM3494, CHEM3495, CHEM3496, CHEM3497, CHEM3498, CHEM3499, CHEM3500, CHEM3501, CHEM3502, CHEM3503, CHEM3504, CHEM3505, CHEM3506, CHEM3507, CHEM3508, CHEM3509, CHEM3510, CHEM3511, CHEM3512, CHEM3513, CHEM3514, CHEM3515, CHEM3516, CHEM3517, CHEM3518, CHEM3519, CHEM3520, CHEM3521, CHEM3522, CHEM3523, CHEM3524, CHEM3525, CHEM3526, ...