**Purdue Northwest Curriculum Document Coversheet**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document No:**  (According to [Instruction](http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/)s[[1]](#footnote-1)) | CES 18-09 REV MAJOR PHYSICAL SCIENCES | **Approval by Faculty Senate:**  (Leave Blank) | 12/14/18 |
| **Proposed Effective Date** | Spring 2019 | **Date Reviewed by Senate Curriculum**  **Committee:**  (Leave blank) | 11/9/18 |
| **Submitting Department:**  (Name of both Dept & College/School ) | Chemistry & Physics Department  College of Engineering and Sciences | **Name(s) of Library Staff Consulted:**  (NA if not required) |  |
| **Date Reviewed by Department** | September 21, 2018 |  |  |
| **Submission Date:**  (Date sent to College/School Curr Comm after Dept Review) |  | **Will New Library**  **Resources Used?** | **Yes** **No**  Double-click to check Yes / No. |
| **Date Reviewed by College/School Curriculum Committee** |  | **Form 40 Needed?**  (Double-click one box.)  Registrar will complete Form 40 **after** Senate approval of document. | **Yes** New courses or any course change, check **YES**  **No** For **all other** curriculum matters, check **NO**. |
| **Contact Person(s):**  (Name & Title) | Purna Das, Department Head |  |  |

Unless marked “Leave blank” all parts of this form must be filled in **before** sending to Secretary of the Faculty Senate.

|  |
| --- |
| **Task (check all that apply and fill out sections appropriate for each change).**  Program/Concentration Change or New Program/Concentration Proposal: Complete Section I, III, & IV  Minor Change or New Minor Proposal: Complete Section I (delete sections III & IV)  Certificate Change or New Certificate Proposal: Complete Section I (delete sections III & IV)  Course Change or New Course Proposal: Complete Section II (delete sections III & IV) |
| **Program name**. Physical Sciences |
| **Degree name(s).** (If applicable.) Bachelor of Science |

## Section I: This section is for changes in programs, minors and certificates

|  |
| --- |
| **List the major changes in each program of study, minor or certificate.**  Modifications of CES Electives and Departmental Electives and corresponding changes to Notes 2 and 3 under Additional Information and Guidelines in the Physical Sciences plan of study to update and clarify the exclusion of SCI 14000 from the list of SCI courses to bring the degree map in line with the current offerings of the department. Alternatives for certain courses have been identified for clarity. |
| **Impact on Students.** (State “N/A” if proposal will not greatly affect students.)  Students will be able to choose the correct prescribed electives. |
| **Impact on University Resources.** (State “N/A” if proposal will not require new resources, faculty or funds.)  N/A |
| **Impact on other Academic Units.** (State “N/A” if proposal will not affect other units.)(Include name of person in affected area discussed with)  N/A |

## Section II: This section is for changes in courses only

|  |
| --- |
| **Subject.** (Brief description of proposed change, addition or deletion.) |
| **Justification.** (Briefly list main reasons for proposed change, addition or deletion.) |

Use the **Current** and **Proposed** spaces below for course changes only. Otherwise, mark “N/A”

|  |  |  |
| --- | --- | --- |
| **Current:** (Course changes: include entire present catalog information. Leave blank if new course)  N/A | | **Proposed:** (Course changes: include entire new catalog information.)  N/A |
| **Is this course also:** | **General Education** | **Currently Designated ExL (see** [**instructions[[2]](#footnote-2)**](http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/)**)** |

|  |
| --- |
| **Course Objectives / Learning Outcomes.** (New courses only. List main outcomes. If lengthy, attach separate page.)  1.  2.  3. |
| **Impact on Students.** (State “N/A” if proposal will not greatly affect students.)  N/A |
| **Impact on University Resources.** (State “N/A” if proposal will not require new resources, faculty or funds.)  N/A |
| **Impact on other Academic Units.** (State “N/A” if proposal will not affect other units.) (Include name of person in affected area this was discussed with.)  N/A |

(Boxes will expand and spill over onto next page to accommodate your typing.)

***Document No:***

## Section III: PLAN OF STUDY REVISION

### Degree Name: Physical Sciences, BS

### Degree Requirements

* 120 Credit Hours
* Minimum grade of C- required for all College of Engineering and Sciences courses
* Minimum GPA of 2.0 required for graduation
* Certain courses may only be available at one campus location

### PNW General Education Core

| **Core Categories** | **Credits** | **Courses:** Enter “Select from list” or designate course(s) from list |
| --- | --- | --- |
| English Composition | 6 | Any two Gen Ed English Composition courses |
| Speech Communication | 3 | Select from the Speech Communication Core list |
| Quantitative Reasoning | 5 | MA 16300 - Integrated Calculus Analysis Geometry I or MA 16031 - Calculus I For Life Sciences |
| Natural Sciences | 8 | * PHYS 15200 - Mechanics or PHYS 22000 - General Physics * CHM 11500 - General Chemistry |
| Technology | 3 | Select from the Technology Core list |
| Humanities | 3 | Select from the Humanities Core list |
| Social Sciences | 3 | Select from the Social Sciences Core list |
| Additional credits | 3 |  |
| General Ed Elective |  |  |
| First-Year Experience (FYE) | 1 | CHM 19400 - Freshman Chemistry Orientation or PHYS 19400 - Freshman Physics Orientation |
| **Total** (minimum) | **32** |  |

### Other Required Courses

#### Department Electives 21 Credits

A minimum of seven (7) credit hours must be at the 30000 level or above; **ASTR** (any course), **CHM** (any course 20000 or higher), **EAS** (any course), **FIS** (any course), **PHYS** (any course 20000 or higher), **SCI** (any course from the following):

* SCI 10601 - Food Chemistry
* SCI 12200 - Origin Of The Universe
* SCI 13100 - Science And Environmental Issues
* SCI 15000 - Brewing Science
* SCI 20200 - Environmental Science
* SCI 22000 - Health And Safety

CES Electives 12 Credits

Select four (4) CES electives: **ASTR** (any course), **BIOL** (any course excluding BIOL 10008 and BIOL 10700), **CHM** (any course 20000 or higher), **CE** (any course), **CS** (any course excluding CS 10000), **EAS** (any course), **ECE** (any course), **ENGR** (any course excluding ENGR 18600), **FIS** (any course), **MSE** (any course), **MA** (any course 20000 or higher excluding MA 23700, MA 23800, and MA 23900), **ME** (any course), **PHYS** (any course 20000 or higher), **STAT** (any course 20000 or higher), **SCI** (any course from the following):

* SCI 10601 - Food Chemistry
* SCI 12200 - Origin Of The Universe
* SCI 13100 - Science And Environmental Issues
* SCI 15000 - Brewing Science
* SCI 20200 - Environmental Science
* SCI 22000 - Health And Safety

General Education Elective 3 credits

Select any course from the Gen Ed Core list.

Free Electives 30 credits

Select ten (10) free electives

\_\_\_\_\_\_

Total Other Required Courses **66 credits**

### Core: Required Courses

BIOL 10100 - Introductory Biology 4 credits

CHM 11600 - General Chemistry 4 credits

CHM 29400 - Sophomore Chemistry Seminar or PHYS 29400 - Sophomore 1 credit

Physics Seminar

CHM 49400 - Junior-Senior Chemistry Seminar or PHYS 49400 - Junior-Senior 1 credit

Physics Seminar

CHM 49800 - Research In Chemistry or PHYS 46900 - Research in Physics (2) 2 credits

MA 16400 - Integrated Calculus Analysis Geometry II 5 credits

PHYS 25100 - Heat, Electricity And Optics 5 credits

\_\_\_\_\_\_

Total **22 credits**

**Total credits required for baccalaureate degree: \_120\_\_\***

**\***For degree programs that require an excess of 120 credit hours, provide explanation and attach documentation, if appropriate.

## Section IV: For all Program Changes;

## Current Semester by Semester

(Delete if new program)

**Requirements**

**Minimum Grade and Grade Point Average (GPA):**  Minimum grade of C- required for all College of Engineering and Sciences courses; 2.0 GPA

**Experiential Learning (EL):**  One EL course required.  EL courses are noted by **(e)** next to the course title.

**Milestone Courses noted by (m) next to the course title have been identified as being critical to your success in this field of study.**

Courses that are only offered on one campus will be noted by an **(H)** for Hammond, or **(W)** for Westville.

Please see the Additional Information and Guidelines section below for more information.

**Semester One Total Credits = 16**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Integrated Calculus Analysis Geometry I | MA 16300 (Also allowed MA 16031 - Calculus I for Life Sciences) (See Note 1) | X | 5 | C- | MA 15900 or MA 15400 or ALEKS Placement 085 |
| General Chemistry I | CHM 11500 | X | 4 | C- | MA 15300 |
| Freshman Chemistry Orientation - **Fall Only** | CHM 19400 | X | 1 |  |  |
| English Composition 1 | Any Gen Ed English Composition course | X | 3 |  |  |
| Speech Communications | Any Gen Ed Speech Communication course | X | 3 |  |  |

**Semester Two Total Credits = 16**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Mechanics | PHYS 15200 (Also allowed PHYS 22000 - General Physics) (See Note 1) | X | 4 | C- | MA 16300 |
| General Chemistry II | CHM 11600 |  | 4 | C- | CHM 11500 |
| Integrated Calculus Analysis Geometry II **(m)** | MA 16400 **(m)** (Also allowed MA 16032 -Calculus II for Life Sciences) (See Note 1) |  | 5 | C- | MA 16300 |
| English Composition 2 | Any Gen Ed English Composition course | X | 3 |  |  |

**Semester Three Total Credits = 15**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Heat, Electricity And Optics **(m)** | PHYS 25100 **(m)**  (Also allowed PHYS 22100 - General Physics) (See Note 1) |  | 5 | C- | PHYS 15200 and MA 16400 |
| Introductory Biology | BIOL 10100 |  | 4 | C- | MA 15300 |
| Free Elective | Any Free Elective |  | 3 | C- |  |
| Humanities Elective | Any Gen Ed Humanities course | X | 3 |  |  |

**Semester Four Total Credits = 16**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Sophomore Chemistry Seminar | CHM 29400 |  | 1 | C- | CHM 26505 |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Technology Elective | Any Gen Ed Technology course | X | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

**Semester Five Total Credits = 15**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| CES Elective | See Note 3 |  | 3 | C- |  |
| Gen Ed Elective | Any Gen Ed course |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

**Semester Six Total Credits = 15**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Social Science Elective | Any Gen Ed Social Science course | X | 3 |  |  |
| CES Elective | See Note 3 |  | 3 | C- |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

**Semester Seven Total Credits = 13**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Research in Chemistry **(e)** | CHM 49800 **(e)** (See Note 4) |  | 1 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| CES Elective | See Note 3 |  | 3 | C- |  |

**Semester Eight Total Credits = 14**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Junior-Senior Chemistry Seminar - **(H) Spring Only** | CHM 49400 |  | 1 | C- | CHM 29400 and CHM 49800 |
| Research in Chemistry **(e)** | CHM 49800 **(e)** (See Note 4) |  | 1 | C- |  |
| CES Elective | See Note 3 |  | 3 | C- |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

Notes:

***Additional Information and Guidelines***

Upper division physics courses are offered on a two year rotation. Contact an advisor to determine the specific semester a particular course will be offered.  Certain courses may only be available at one campus location.

Any individual course within CES must be a C- or better, but the average GPA for all disciplinary courses (CHM or PHYS courses) must be at least 2.50.

At least 29 credit hours of Departmental or CES or Free Electives must be 30000 level or higher. Students declaring this major must choose an approved concentration, or have a completed plan of study approved by the Department Head, at the time of declaration of degree. Students may pursue any minor but no more than 12 credits may overlap with the degree requirements.

**Note 1**: Students who choose to take MA 16031, MA 16032, PHYS 22000, and PHYS 22100 will need to take an additional five (5) credits in free electives to meet the 120 credit hour requirement.

**Note 2**: Departmental Elective – (A minimum of 7 credit hours must be at the 30000 level or above.) ASTR (any course); CHM (any course 20000 or higher); EAS (any course); FIS (any course); PHYS (any course 20000 or higher); SCI (any course from the following: SCI 10601, SCI 12200, SCI 13100, SCI 14000, SCI 15000, SCI 20200, and SCI 22000)

**Note 3**: CES Elective: ASTR (any course); BIOL (any course excluding BIOL 10008, 10010, and BIOL 10700); CHM (any course 20000 or higher); CE (any course); CS (any course excluding CS 10000); EAS (any course): ECE (any course): ENGR (any course excluding 11000, ENGR 18600); FIS (any course); MSE (any course); MA (any course 20000 or higher excluding MA 23700, MA 23800, and MA 23900); ME (any course); PHYS (any course 20000 or higher); SCI (any course from the following: SCI 10601, SCI 12200, SCI 13100, SCI 14000, SCI 15000, SCI 20200, and 22200); and STAT (any course 20000 or higher).

**Note 4**: Students with an emphasis in physics may use PHYS 46900 instead. Students pursuing a secondary education attribute may use EDCI 49700 instead.

## Section IV continued: For all Program Changes;

## Proposed Semester by Semester

**Requirements**

**Minimum Grade and Grade Point Average (GPA):**  Minimum grade of C- required for all College of Engineering and Sciences courses; 2.0 GPA

**Experiential Learning (EL):**  One EL course required.  EL courses are noted by (e) next to the course title.

**Milestone Courses noted by (m) next to the course title have been identified as being critical to your success in this field of study.**

Courses that are only offered on one campus will be noted by an **(H)** for Hammond, or **(W)** for Westville.

Please see the Additional Information and Guidelines section below for more information.

**Semester One Total Credits = 16**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Integrated Calculus Analysis Geometry I | MA 16300 (Also allowed MA 16031 - Calculus I for Life Sciences) (See Note 1) | X | 5 | C- | MA 15900 or MA 15400 or ALEKS Placement 085 |
| General Chemistry I | CHM 11500 | X | 4 | C- | MA 15300 |
| Freshman Chemistry Orientation - **Fall Only** | CHM 19400 (Also allowed PHYS 19400 - Freshman Physics Orientation) | X | 1 |  |  |
| English Composition 1 | Any Gen Ed English Composition course | X | 3 |  |  |
| Speech Communications | Any Gen Ed Speech Communication course | X | 3 |  |  |

**Semester Two Total Credits = 16**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Mechanics | PHYS 15200 (Also allowed PHYS 22000 - General Physics) (See Note 1) | X | 4 | C- | MA 16300 |
| General Chemistry II | CHM 11600 |  | 4 | C- | CHM 11500 |
| Integrated Calculus Analysis Geometry II **(m)** | MA 16400 **(m)** (Also allowed MA 16032 -Calculus II for Life Sciences) (See Note 1) |  | 5 | C- | MA 16300 |
| English Composition 2 | Any Gen Ed English Composition course | X | 3 |  |  |

**Semester Three Total Credits = 15**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Heat, Electricity And Optics **(m)** | PHYS 25100 **(m)**  (Also allowed PHYS 22100 - General Physics) (See Note 1) |  | 5 | C- | PHYS 15200 and MA 16400 |
| Introductory Biology | BIOL 10100 |  | 4 | C- | MA 15300 |
| Free Elective | Any Free Elective |  | 3 | C- |  |
| Humanities Elective | Any Gen Ed Humanities course | X | 3 |  |  |

**Semester Four Total Credits = 16**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Sophomore Chemistry Seminar | CHM 29400 (Also allowed PHYS 29400 - Junior-Senior Physics Seminar) |  | 1 | C- | CHM 26505 |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Technology Elective | Any Gen Ed Technology course | X | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

**Semester Five Total Credits = 15**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| CES Elective | See Note 3 |  | 3 | C- |  |
| Gen Ed Elective | Any Gen Ed course |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

**Semester Six Total Credits = 15**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Social Science Elective | Any Gen Ed Social Science course | X | 3 |  |  |
| CES Elective | See Note 3 |  | 3 | C- |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

**Semester Seven Total Credits = 13**

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| --- | --- | --- | --- | --- | --- |
| Research in Chemistry **(e)** | CHM 49800 **(e)** (See Note 4) (Also allowed PHYS 46900 - Research in Physics) |  | 1 | C- |  |
| Departmental Elective | See Note 2 |  | 3 | C- |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| CES Elective | See Note 3 |  | 3 | C- |  |

**Semester Eight Total Credits = 14**

| **Program Requirements : Designate Program Requirement** | **Subject Code/Course Number** | **(GenEd)**  **Yes=X** | **Credits**  **Number** | **Min Grade** | **Prerequisites** |
| --- | --- | --- | --- | --- | --- |
| Junior-Senior Chemistry Seminar | CHM 49400 - **(H) Spring Only**  (Also allowed PHYS 49400 - Junior-Senior Physics Seminar) |  | 1 | C- | CHM 29400 and CHM 49800 |
| Research in Chemistry **(e)** | CHM 49800 **(e)** (See Note 4) (Also allowed PHYS 46900 - Research in Physics) |  | 1 | C- |  |
| CES Elective | See Note 3 |  | 3 | C- |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |
| Free Elective | Any Free Elective |  | 3 |  |  |

Notes:

***Additional Information and Guidelines***

Upper division physics courses are offered on a two year rotation. Contact an advisor to determine the specific semester a particular course will be offered.  Certain courses may only be available at one campus location.

Any individual course within CES must be a C- or better, but the average GPA for all disciplinary courses (CHM or PHYS courses) must be at least 2.50.

At least 29 credit hours of Departmental or CES or Free Electives must be 30000 level or higher. Students declaring this major must choose an approved concentration, or have a completed plan of study approved by the Department Head, at the time of declaration of degree. Students may pursue any minor but no more than 12 credits may overlap with the degree requirements.

**Note 1**: Students who choose to take MA 16031, MA 16032, PHYS 22000, and PHYS 22100 will need to take an additional five (5) credits in free electives to meet the 120 credit hour requirement.

**Note 2**: Departmental Elective – (A minimum of 7 credit hours must be at the 30000 level or above.) ASTR (any course); CHM (any course 20000 or higher); EAS (any course); FIS (any course); PHYS (any course 20000 or higher); SCI (any course from the following: SCI 10601, SCI 12200, SCI 13100, SCI 15000, SCI 20200, and SCI 22000)

**Note 3**: CES Elective: ASTR (any course); BIOL (any course excluding BIOL 10008, 10010, and BIOL 10700); CHM (any course 20000 or higher); CE (any course); CS (any course excluding CS 10000); EAS (any course): ECE (any course): ENGR (any course excluding 11000, ENGR 18600); FIS (any course); MSE (any course); MA (any course 20000 or higher excluding MA 23700, MA 23800, and MA 23900); ME (any course); PHYS (any course 20000 or higher); SCI (any course from the following: SCI 10601, SCI 12200, SCI 13100, SCI 15000, SCI 20200, and 22200); and STAT (any course 20000 or higher).

**Note 4**: Students with an emphasis in physics may use PHYS 46900 instead. Students pursuing a secondary education attribute may use EDCI 49700 instead.

1. <http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/> [↑](#footnote-ref-1)
2. <http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/> [↑](#footnote-ref-2)