

Ohio State

| Year | Seed | Opponent | Seed | Score | Opp Score | W | L | OT | Round |
|------|------|----------------------------|------|-------|-----------|----|----|----|-----------------------|
| 1939 | | Wake Forest | | 64 | 52 | 1 | 0 | 0 | Elite Eight |
| | | Villanova | | 53 | 36 | 2 | 0 | 0 | National Semifinals |
| | | Oregon | | 33 | 46 | 2 | 1 | 0 | National Championship |
| 1944 | | Temple | | 57 | 47 | 3 | 1 | 0 | Elite Eight |
| | | Dartmouth | | 53 | 60 | 3 | 2 | 0 | National Semifinals |
| 1945 | | Kentucky | | 45 | 37 | 4 | 2 | 0 | Elite Eight |
| | | New York | | 65 | 70 | 4 | 3 | 1 | National Semifinals |
| 1946 | | Harvard | | 46 | 38 | 5 | 3 | 0 | Elite Eight |
| | | North Carolina | | 57 | 60 | 5 | 4 | 1 | National Semifinals |
| | | California | | 63 | 45 | 6 | 4 | 0 | National Third Place |
| 1950 | | CCNY | | 55 | 56 | 6 | 5 | 0 | Elite Eight |
| | | Holy Cross | | 72 | 52 | 7 | 5 | 0 | Regional Third Place |
| 1960 | | Western Kentucky | | 98 | 79 | 8 | 5 | 0 | Sweet Sixteen |
| | | Georgia Tech | | 86 | 69 | 9 | 5 | 0 | Elite Eight |
| | | New York | | 76 | 54 | 10 | 5 | 0 | National Semifinals |
| | | California | | 75 | 55 | 11 | 5 | 0 | National Championship |
| 1961 | | Louisville | | 56 | 55 | 12 | 5 | 0 | Sweet Sixteen |
| | | Kentucky | | 87 | 74 | 13 | 5 | 0 | Elite Eight |
| | | St. Joseph's, Pennsylvania | | 95 | 69 | 14 | 5 | 0 | National Semifinals |
| | | Cincinnati | | 65 | 70 | 14 | 6 | 1 | National Championship |
| 1962 | | Western Kentucky | | 93 | 73 | 15 | 6 | 0 | Sweet Sixteen |
| | | Kentucky | | 74 | 64 | 16 | 6 | 0 | Elite Eight |
| | | Wake Forest | | 84 | 68 | 17 | 6 | 0 | National Semifinals |
| | | Cincinnati | | 59 | 71 | 17 | 7 | 0 | National Championship |
| 1968 | | East Tennessee State | | 79 | 72 | 18 | 7 | 0 | Sweet Sixteen |
| | | Kentucky | | 82 | 81 | 19 | 7 | 0 | Elite Eight |
| | | North Carolina | | 66 | 80 | 19 | 8 | 0 | National Semifinals |
| | | Houston | | 89 | 85 | 20 | 8 | 0 | National Third Place |
| 1971 | | Marquette | | 60 | 59 | 21 | 8 | 0 | Sweet Sixteen |
| | | Western Kentucky | | 78 | 81 | 21 | 9 | 1 | Elite Eight |
| 1980 | 4 | Arizona State | 5 | 89 | 75 | 22 | 9 | 0 | Round of 32 |
| | 4 | UCLA | 8 | 68 | 72 | 22 | 10 | 0 | Sweet Sixteen |
| 1982 | 8 | James Madison | 9 | 48 | 55 | 22 | 11 | 0 | Round of 64 |
| 1983 | 3 | Syracuse | 6 | 79 | 74 | 23 | 11 | 0 | Round of 32 |

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| 1983 | 3 | North Carolina | 2 | 51 | 64 | 23 | 12 | 0 | Sweet Sixteen |
| 1985 | 4 | Iowa State | 13 | 75 | 64 | 24 | 12 | 0 | Round of 64 |
| | 4 | Louisiana Tech | 5 | 67 | 79 | 24 | 13 | 0 | Round of 32 |
| 1987 | 9 | Kentucky | 8 | 91 | 77 | 25 | 13 | 0 | Round of 64 |
| | 9 | Georgetown | 1 | 79 | 82 | 25 | 14 | 0 | Round of 32 |
| 1990 | 8 | Providence | 9 | 84 | 83 | 26 | 14 | 1 | Round of 64 |
| | 8 | Nevada-Las Vegas | 1 | 65 | 76 | 26 | 15 | 0 | Round of 32 |
| 1991 | 1 | Towson | 16 | 97 | 86 | 27 | 15 | 0 | Round of 64 |
| | 1 | Georgia Tech | 8 | 65 | 61 | 28 | 15 | 0 | Round of 32 |
| | 1 | St. John's, New York | 4 | 74 | 91 | 28 | 16 | 0 | Sweet Sixteen |
| 1992 | 1 | Mississippi Valley | 16 | 83 | 56 | 29 | 16 | 0 | Round of 64 |
| | 1 | Connecticut | 9 | 78 | 55 | 30 | 16 | 0 | Round of 32 |
| | 1 | North Carolina | 4 | 80 | 73 | 31 | 16 | 0 | Sweet Sixteen |
| | 1 | Michigan | 6 | 71 | 75 | 31 | 17 | 1 | Elite Eight |
| 1999 | 4 | Murray State | 13 | 72 | 58 | 32 | 17 | 0 | Round of 64 |
| | 4 | Detroit | 12 | 75 | 44 | 33 | 17 | 0 | Round of 32 |
| | 4 | Auburn | 1 | 72 | 64 | 34 | 17 | 0 | Sweet Sixteen |
| | 4 | St. John's, New York | 3 | 77 | 74 | 35 | 17 | 0 | Elite Eight |
| | 4 | Connecticut | 1 | 58 | 64 | 35 | 18 | 0 | National Semifinals |
| 2000 | 3 | Appalachian State | 14 | 87 | 61 | 36 | 18 | 0 | Round of 64 |
| | 3 | Miami, Florida | 6 | 62 | 75 | 36 | 19 | 0 | Round of 32 |
| 2001 | 5 | Utah State | 12 | 68 | 77 | 36 | 20 | 1 | Round of 64 |
| 2002 | 4 | Davidson | 13 | 69 | 64 | 37 | 20 | 0 | Round of 64 |
| | 4 | Missouri | 12 | 67 | 83 | 37 | 21 | 0 | Round of 32 |
| 2006 | 2 | Davidson | 15 | 70 | 62 | 38 | 21 | 0 | Round of 64 |
| | 2 | Georgetown | 7 | 52 | 70 | 38 | 22 | 0 | Round of 32 |
| 2007 | 1 | Central Connecticut State | 16 | 78 | 57 | 39 | 22 | 0 | Round of 64 |
| | 1 | Xavier, Ohio | 9 | 78 | 71 | 40 | 22 | 1 | Round of 32 |
| | 1 | Tennessee | 5 | 85 | 84 | 41 | 22 | 0 | Sweet Sixteen |
| | 1 | Memphis | 2 | 92 | 76 | 42 | 22 | 0 | Elite Eight |
| | 1 | Georgetown | 2 | 67 | 60 | 43 | 22 | 0 | National Semifinals |
| | 1 | Florida | 1 | 75 | 84 | 43 | 23 | 0 | National Championship |
| 2009 | 8 | Siena | 9 | 72 | 74 | 43 | 24 | 2 | Round of 64 |
| 2010 | 2 | California-Santa Barbara | 15 | 68 | 51 | 44 | 24 | 0 | Round of 64 |

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| 2010 | 2 | Georgia Tech | 10 | 75 | 66 | 45 | 24 | 0 | Round of 32 |
| | 2 | Tennessee | 6 | 73 | 76 | 45 | 25 | 0 | Sweet Sixteen |