

Wake Forest

| Year | Seed | Opponent | Seed | Score | Opp Score | W | L | OT | Round |
|------|------|----------------------------|------|-------|-----------|----|----|----|----------------------|
| 1939 | | Ohio State | | 52 | 64 | 0 | 1 | 0 | Elite Eight |
| 1953 | | Holy Cross | | 71 | 79 | 0 | 2 | 0 | Sweet Sixteen |
| | | Lebanon Valley | | 91 | 71 | 1 | 2 | 0 | Regional Third Place |
| 1961 | | St. John's, New York | | 97 | 74 | 2 | 2 | 0 | Round of 32 |
| | | St. Bonaventure | | 78 | 73 | 3 | 2 | 0 | Sweet Sixteen |
| | | St. Joseph's, Pennsylvania | | 86 | 96 | 3 | 3 | 0 | Elite Eight |
| 1962 | | Yale | | 92 | 82 | 4 | 3 | 1 | Round of 32 |
| | | St. Joseph's, Pennsylvania | | 96 | 85 | 5 | 3 | 1 | Sweet Sixteen |
| | | Villanova | | 79 | 69 | 6 | 3 | 0 | Elite Eight |
| | | Ohio State | | 68 | 84 | 6 | 4 | 0 | National Semifinals |
| | | UCLA | | 82 | 80 | 7 | 4 | 0 | National Third Place |
| 1977 | | Arkansas | | 86 | 80 | 8 | 4 | 0 | Round of 32 |
| | | Southern Illinois | | 86 | 81 | 9 | 4 | 0 | Sweet Sixteen |
| | | Marquette | | 68 | 82 | 9 | 5 | 0 | Elite Eight |
| 1981 | 4 | Boston College | 5 | 64 | 67 | 9 | 6 | 0 | Round of 32 |
| 1982 | 7 | Old Dominion | 10 | 74 | 57 | 10 | 6 | 0 | Round of 64 |
| | 7 | Memphis | 2 | 55 | 56 | 10 | 7 | 0 | Round of 32 |
| 1984 | 4 | Kansas | 5 | 69 | 59 | 11 | 7 | 0 | Round of 32 |
| | 4 | DePaul | 1 | 73 | 71 | 12 | 7 | 1 | Sweet Sixteen |
| | 4 | Houston | 2 | 63 | 68 | 12 | 8 | 0 | Elite Eight |
| 1991 | 5 | Louisiana Tech | 12 | 71 | 65 | 13 | 8 | 0 | Round of 64 |
| | 5 | Alabama | 4 | 88 | 96 | 13 | 9 | 0 | Round of 32 |
| 1992 | 9 | Louisville | 8 | 58 | 81 | 13 | 10 | 0 | Round of 64 |
| 1993 | 5 | Chattanooga | 12 | 81 | 58 | 14 | 10 | 0 | Round of 64 |
| | 5 | Iowa | 4 | 84 | 78 | 15 | 10 | 0 | Round of 32 |
| | 5 | Kentucky | 1 | 69 | 103 | 15 | 11 | 0 | Sweet Sixteen |
| 1994 | 5 | Charleston, South Carolina | 12 | 68 | 58 | 16 | 11 | 0 | Round of 64 |
| | 5 | Kansas | 4 | 58 | 69 | 16 | 12 | 0 | Round of 32 |
| 1995 | 1 | North Carolina A&T | 16 | 79 | 47 | 17 | 12 | 0 | Round of 64 |
| | 1 | St. Louis | 9 | 64 | 59 | 18 | 12 | 0 | Round of 32 |
| | 1 | Oklahoma State | 4 | 66 | 71 | 18 | 13 | 0 | Sweet Sixteen |
| 1996 | 2 | Louisiana-Monroe | 15 | 62 | 50 | 19 | 13 | 0 | Round of 64 |
| | 2 | Texas | 10 | 65 | 62 | 20 | 13 | 0 | Round of 32 |

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|------|------|----------------------------|------|-------|-----------|----|----|----|---------------|
| 1996 | 2 | Louisville | 6 | 60 | 59 | 21 | 13 | 0 | Sweet Sixteen |
| | 2 | Kentucky | 1 | 63 | 83 | 21 | 14 | 0 | Elite Eight |
| 1997 | 3 | St. Mary's, California | 14 | 68 | 46 | 22 | 14 | 0 | Round of 64 |
| | 3 | Stanford | 6 | 66 | 72 | 22 | 15 | 0 | Round of 32 |
| 2001 | 7 | Butler | 10 | 63 | 79 | 22 | 16 | 0 | Round of 64 |
| 2002 | 7 | Pepperdine | 10 | 83 | 74 | 23 | 16 | 0 | Round of 64 |
| | 7 | Oregon | 2 | 87 | 92 | 23 | 17 | 0 | Round of 32 |
| 2003 | 2 | East Tennessee State | 15 | 76 | 73 | 24 | 17 | 0 | Round of 64 |
| | 2 | Auburn | 10 | 62 | 68 | 24 | 18 | 0 | Round of 32 |
| 2004 | 4 | Virginia Commonwealth | 13 | 79 | 78 | 25 | 18 | 0 | Round of 64 |
| | 4 | Manhattan | 12 | 84 | 80 | 26 | 18 | 0 | Round of 32 |
| | 4 | St. Joseph's, Pennsylvania | 1 | 80 | 84 | 26 | 19 | 0 | Sweet Sixteen |
| 2005 | 2 | Chattanooga | 15 | 70 | 54 | 27 | 19 | 0 | Round of 64 |
| | 2 | West Virginia | 7 | 105 | 111 | 27 | 20 | 2 | Round of 32 |
| 2009 | 4 | Cleveland State | 13 | 69 | 84 | 27 | 21 | 0 | Round of 64 |
| 2010 | 9 | Texas | 8 | 81 | 80 | 28 | 21 | 1 | Round of 64 |
| | 9 | Kentucky | 1 | 60 | 90 | 28 | 22 | 0 | Round of 32 |
| 2017 | 11 | Kansas State | 11 | 88 | 95 | 28 | 23 | 0 | Opening Round |